

Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Chevron Products Company
Facility #A0010

Facility Address:

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Richmond, CA 94802

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Type of Facility: Petroleum Refinery

Primary SIC: 2911

Product: Petroleum

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ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

February 28, 2018

Date

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TANK AND WASTEWATER CLUSTER INDEX

Tanks are clustered in groups to reflect similar applicable requirements. The specific sources included in each cluster are summarized below.

Table IV.F.1.1

Fixed Roof Tanks Cluster 01a

Table IV.F.1.2

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900,
S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052,
S-1149, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1636, S-1653, S-1679, S-1723, S-1724, S-1725,
S-1756, S-1989, S-2520, S-2540, S-3139, ~~S-3140~~ (S-3140 also in Table IV.E.3.1 Sulfur Recovery), S-3142, S-3146, S-3148, S-3310
S-0917, S-0918, S-1821, ~~S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b:

External Floating Roof Tanks Cluster 01b:

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138

[Table IV.F.1.3](#)

[Fixed Roof Tanks Cluster 02](#)

[S-0021, S-0660, S-6066](#)

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Table IV.F.1.4

Fixed Roof Tanks Cluster 05

~~S-0605 (S-0605 also in Table IV.G.1.5 Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Table IV.F.1.5

External Floating Roof Tanks Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Table IV.F.1.6

Internal Floating Roof Tank Cluster 12

S-1633

~~Table IV.F.1.7~~

~~Fixed Roof Tanks Cluster 13~~

Table IV.F.1.8

External Floating Roof Tanks Cluster 16

Table IV.F.1.9

External Floating Roof Tanks Cluster 17

S-3101, S-3102, S-3129

Table IV.F.1.10

External Floating Roof Tanks Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, ~~S-3220~~

TANK AND WASTEWATER CLUSTER INDEX

Table IV.F.1.11

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637, ~~S-3202~~, ~~S-3225~~, ~~S-3228~~, S-3229, ~~S-3230~~, ~~S-3231~~

Table IV.F.1.12

Fixed Roof Tanks Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110, S-3111 also in Table IV.G.1.5 Wastewater Cluster 40b) (abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Table IV.F.1.13

External Floating Roof Tanks Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144

Table IV.F.1.14

Internal Floating Roof Tanks Cluster 27

S-1289, ~~S-1645~~

Table IV.G.1.1

Wastewater Treatment Units Cluster 10

S-3200, S-3192

Table IV.G.1.2

Wastewater Process Drains Not Subject to QOQ Cluster 20d

Table IV.G.1.3

Wastewater Process Drains Cluster 20q

S-4235, S-4282, S-4251, S-4282A, S-4285, S-4291, S-6050, S-4356

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Table IV.G.1.4

Wastewater Separator Cluster 30c

S-4148, S-4413, S-4414

Table IV.G.1.5

Wastewater Non-ERFT or IFRT Tanks Cluster 40b

~~S-0605~~, S-0610, S-3110, S-3111, S-3229

Table IV.G.1.6

Wastewater EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Table IV.G.1.7

Wastewater Bioreactor Cluster 50d

S-4393

Table IV.G.1.8

Wastewater Containers Cluster 60b

~~S-6250~~, Bins, Drums, Vacuum Trucks

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

~~(adopted and amended by the District Board on 09/05/79 and 05/04/11, respectively)~~as amended by the District Board

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

~~(adopted and amended by the District Board on 01/01/80 and 12/06/17, respectively)~~as amended by the District Board

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 8/1/164/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

~~(adopted and amended by the District Board on 07/17/91 and 12/06/17, respectively)~~as amended by the District Board

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 8/1/164/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

~~(adopted and amended by the District Board on 03/07/84 and 12/6/17, respectively)~~as amended by the District Board

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

~~(adopted and amended by the District Board on 06/15/05 and 12/7/16, respectively)~~ as adopted by the District Board

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

~~(adopted and amended by the District Board on 11/03/93 and 12/06/17, respectively)~~as amended by the District Board

SIP Regulation 2, Rule 6 – Permits, Major Facility Review

(as approved by EPA through 6/23/95)

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on August 11, 2011 and expires on August 10, 2016. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than February 10, 2016, and no earlier than August 10, 2015. If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after August 10, 2016. If the permit renewal has not been issued by August 10, 2016, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause.

I. STANDARD CONDITIONS

(Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit that the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. A responsible official for the facility shall sign the certifications. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment, which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

I. STANDARD CONDITIONS

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be December 1, 2003, to May 31, 2004. The second reporting period for this permit shall be June 1, 2004, to June 30, 2004. Subsequent reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. ~~The first certification period shall be, through. The second certification period shall be, to. Subsequent~~ Certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

(MOP Volume II, Part 3, §4.5 ~~and 4.15~~)

I. STANDARD CONDITIONS

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that a court or tribunal of competent jurisdiction, or by the Administrator of the EPA invalidates any provision of this permit, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity and throughput limits for each source as shown in Table's II A1 and A2 are the maximum allowable capacity and throughput limits. Exceedance of either the maximum allowable capacity or the throughput limits for any source is a violation of Regulation 2, Rule 1, and Section 301. (Regulation 2-1-301)
- *2. For grandfathered sources, the throughput limits as shown in Table II-A3 are based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Reg. 2-1-234.3)
- *3. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]
4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.

I. STANDARD CONDITIONS

5. When the designation in this Title V Permit of a BAAQMD rule/regulation as federally enforceable is based on inclusion in the SIP, then only the sections, portions, or versions of the BAAQMD rule/regulation included in the SIP shall be considered federally enforceable.

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

II. EQUIPMENT

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-09252801	Tank	Fixed Roof	N/A	336 gal	2,520	N/A	gal	P/C# 15107
S-0679	Tank	External Floating Roof	N/A	3767K gal	1,000,000	N/A	bbl non-exempt stocks	Conditioned annual throughput, P/C# 8503
S-0870	Tank	Fixed Roof	N/A	2300 gal	4,500	N/A	bbl non-exempt stocks	condition #11208
S-0957	Tank	Fixed Roof	N/A	3272K gal	7,000,000	N/A	bbl non-exempt stocks	P/C# 11228 A/N 11886 required offsets = NSR
S-0992	Tank 992	External Floating Roof	N/A	4351K gal	6,000,000	N/A	bbl	Conditioned annual throughput (non-exempt stock), P/C# 10909
S-1296	Tank	External Floating Roof	N/A	6733K gal	3,495,000	N/A	bbl	'condition #22641
S-1489	Tank	External Floating Roof	N/A	2092K gal	2,500,000	N/A	bbl non-exempt stocks	Conditioned annual throughput (non-exempt stock), P/C# 10908
S-1514	Tank	External Floating Roof	N/A	4767K gal	3,000,000	N/A	bbl	condition #22641
S-1635	Tank	Internal Floating Roof	N/A	155K gal	2,000,000	N/A	bbl non-exempt stocks	P/C# 15671 offsets = NSR
S-1645	Tank	Internal Floating Roof	N/A	105K gal	520,000	N/A	bbl	P/C #21307 per App 8454
S-1653	Tank	Fixed Roof	N/A	1260K gal	750,000	N/A	bbl non-exempt stocks	Conditioned annual throughput (non-exempt stock), P/C# 11436 offsets

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								= NSR
S-1798	Tank	External Floating Roof	N/A	6266K gal	7,200,000	N/A	bbl	Conditioned annual throughput, P/C# 13597
S-3100	Tank	External Floating Roof	N/A	19910K gal	14,000,000	N/A	bbl non-exempt stock	P/C#2238 (App.#8452)
S-3106	Tank	External Floating Roof	N/A	29MM gal	30,000,000	N/A	bbl non-exempt stock	Condition #11025
S-3110	Tank	Abated Fixed Roof	N/A	24K gal	5,000,000 (one of two surge tanks for S-3200)	N/A	bbl Desalter effluent water	App.'s# 5417 & 6035
S-3111	Tank	Abated Fixed Roof	N/A	24K gal	5,000,000 (one of two surge tanks for S-3200)	N/A	bbl Desalter effluent water	App.'s# 5417 & 6035
S-3126	Tank	External Floating Roof	N/A	553.57 K gal	50,000	N/A	bbl recovered oil	P/C# 17470 offsets = NSR design drawings submitted 1/16/4
S-3127	Tank	External Floating Roof	N/A	1992.86 Kgal	223,000	N/A	bbl	App.# 6851 P/C #23262 design drawings submitted 1/16/4
S-3133	Tank	External Floating Roof	N/A	13147K gal	15,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput, P/C# 15038
S-3134	Tank	External Floating Roof	N/A	8379K gal	10,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput, P/C# 13859
S-3185	Tank (previously Tank 982)	External Floating Roof	N/A	5040K gal	20,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 11024 offsets = NSR

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-3189	Tank	External Floating Roof	N/A	8400K gal	12,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 6660
S-3190	Tank	External Floating Roof	N/A	5698.33 K gal	7,300,000	N/A	bbl	Conditioned annual throughput, P/C# 6661 design drawings submitted 1/16/4
S-3191	Tank	External Floating Roof	N/A	5682.51K gal	2,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 7583 design drawings submitted 1/16/4
S-3193	Tank	External Floating Roof	N/A	6663.89 K gal	9,500,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 8253 design drawings submitted 1/16/4
S-3196	Tank	External Floating Roof	N/A	8400K gal	2,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 13467
S-3197	Tank	External Floating Roof	N/A	8763.91 K gal	4,000,000	N/A	bbl limited to gasoline, sponge oil, sour water, naphtha feed, MTBE, reformate or refinery stock with TVP < 6.2 psia, benzene ≤	Conditioned annual throughput, P/C# 8252 <u>13535</u> design drawings submitted 1/16/4

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
							<u>8.1 wt%. TAC emissions not exceeding risk screening trigger levels.</u> OR <u>for up to 60 days in any 12 month period hydrocarbon with benzene ≤ 30 wt% and TVP ≤ 11.0 psia</u>	
S-3198	Tank	External Floating Roof	N/A	2284K gal	500,000	N/A	bbl limited to toluene, jet A, distillate oil, or other petroleum TVP or toxicity less than toluene or Jet A	Conditioned annual throughput, P/C# 8715 offsets = NSR
S-3200	4 Crude Unit Desalter Water Treatment Unit	N/A	N/A		10,000,000	27,400	bbl	App.#6035
S-3201	Tank	External Floating Roof	N/A	7140K gal	7,300,000	N/A	Bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C#13008 CFP
S-3202	Tank	<u>Domed</u> External Floating Roof	N/A	4267K gal	4,000,000	N/A	Bbl <u>methanol or petroleum</u> hydrocarbon stock other than methanol with a vapor pressure <8.33 psia	Conditioned annual throughput, P/C# 13364 CFP
S-3213	Tank	External Floating Roof	N/A	15,623.06 K gal	9,100,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 12139 design drawings submitted

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								1/16/4
S-3214	Tank	External Floating Roof	N/A	5418K gal	3,000,000	N/A	bbl limited to refinery stock with TVP < or = 11.0 psia and benzene < or = 5.5%	Conditioned annual throughput (non-exempt stock), P/C# 12104
S-3225	EFR Storage Tank	Domed External Floating Roof	N/A	4.55 MMgal	10,832,000	N/A	bbl	Condition #18702
S-3226	Sulfur Storage Tank	Fixed Roof	N/A	1.1514 MM gal	N/A	N/A	gallons	Condition #1046
S-3229	Tank	Domed External Floating Roof	N/A	4242K gal	6,000,000	38,000	bbl non-exempt stock	Condition #25037
S-3230 3228	Tank	Domed External Floating Roof Storage Tank	N/A	150,000 BBL	10,000,000 4,424	N/A 28	BBL Pounds POC	Condition #25848
S-3231	Tank	Domed External Floating Roof Storage Tank	N/A	95,000 BBL	4,286	N/A	Lbs POC	Equivalent to 10 MMBbl/12 month period at 11 psia TVP Condition #25913
S-3234	Sulfur Storage Tank	Fixed Roof	N/A		N/A	N/A		Condition #1046
S-3235	Emergency Standby Diesel Storm Water Pump Engine	Deutz	TCD4.1	154 bhp	50	N/A	Hours for reliability related testing	Condition # 22850
S-4032	#3 Rheniformer, F101	Foster Wheeler	DWG-719-11-H1		525,600	1,440	million-Btu HHV	PTO RLOP
S-4033	#3 Rheniformer, F102	Foster Wheeler	DWG-719-11-H3		429,240	1,176	million-Btu HHV	PTO RLOP
S-4038	#4 Rheniformer, F-3550	Alcorn Combustion	HC-01403		1,635,200	4,480	million Btu HHV	Conditioned daily throughput A/N 8432. Appendix 12.22 RLOP
S-4039	#4 Rheniformer, F-3560	Alcorn Combustion	HC-01403		1,489,200	4,080	million Btu HHV	Conditioned daily throughput A/N

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								8432 RLOP
S-4040	#4 Rheniformer, F-3570	Alcorn Combustion	HC-01403		1,331,520	3,648	million Btu HHV	Conditioned daily throughput A/N 8432 RLOP
S-4041	F-3580, #4 Rheniformer	Alcorn Combustion	HC-01403		674,520	1,848	million Btu HHV	Conditioned daily throughput A/N 8432 RLOP
S-4042	#5 Rheniformer F-550	Foster Wheeler	N/A		1,734,480	4,752	million Btu HHV	Conditioned daily throughput A/N 2193
S-4043	F-560, #5 Rheniformer	Foster Wheeler	N/A		1,130,040	3,192	million Btu HHV	Conditioned daily throughput A/N 2193
S-4044	#5 Rheniformer F-570	Foster Wheeler	N/A		683,280	1,872	million Btu HHV	Conditioned daily throughput P/C# 16686 PA#8343
S-4045	#5 Rheniformer F-580	Foster Wheeler	N/A		446,760	1,224	million Btu HHV	Conditioned daily throughput A/N 2193
S-4046	Asphalt Plant F1 H.O. Heater	Petro-Chem	N/A		236,520	648	million Btu HHV	PTO RLOP

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4059	#1 JHT Furnace #247	Born Engineering Co.	H-265-73		1,059,960	2,904	million Btu HHV	Conditioned daily throughput A/N 2189 RLOP
S-4060	#1 JHT Furnace #210A&B	Born Engineering Co.	H-265-73		1,261,440	3,456	million Btu HHV	Conditioned daily throughput A/N 2189 RLOP
S-4061	#5 Naph Hydrotreater F-410	Born Engineering Co.	N/A		989,880	2,928	million Btu HHV	Conditioned daily throughput, A/N 2192 annual limit proposed in Aug 16, 2001 firing rate limit update.
S-4062	#5 Naph Hydrotreater F-447	Born Engineering Co.	N/A		1,095,000	3,960	million Btu HHV	Conditioned daily throughput, A/N 2192 annual limit proposed in Aug 16, 2001 firing rate limit update.
S-4068	VGO Desulfurizer F-1610	Petro-Chem	N/A		1,116,900	3,060	million Btu HHV	Conditioned daily throughput A/N 3461
S-4069	VGO F-1660	American Schack	N/A		481,800	1320	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently amended. Appendix 9F-1 RLOP
S-4070	#4 Crude Unit F-1100a	Foster Wheeler	4800-311-141		3,425,160	9,552	million Btu HHV	Conditioned daily throughput

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								P/C# 16686. Appendix 9F-2 RLOP
S-4071	#4 Crude Unit F-1100b	Foster Wheeler	4800-311-141		3,547,800	9,720	million Btu HHV	Conditioned daily throughput P/C# 16686. Appendix 9F-2 RLOP
S-4072	#4 Crude Unit F-1160	Foster Wheeler	4800-311-1411X		2,943,360	8,064	million Btu HHV	Conditioned daily throughput P/C# 16686. Appendix 9F-2
S-4107	Heat Treating Furnace No. 1 Boiler Shop	John R. Gearhart Co.	N/A		57,816	158	Million Btu HHV	PTO RLOP
S-4129	800# Steam Boiler #1 #IPP	Riley Stoker Corp.	N/A		2,041,080	5,592	million Btu HHV	Conditioned daily throughput P/A # 19292
S-4131	Steam Boiler #3 #1PP	Riley Stoker Corp.	N/A		2,067,360	5,664	million Btu HHV	Conditioned daily throughput P/A # 19292
S-4132	Steam Boiler #4 #1PP	Riley Stoker Corp.	N/A		2,058,600	5,640	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4133	Steam Boiler #5 #1PP	Riley Stoker Corp.	N/A		2,076,120	5,688	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4135	Steam Boiler #7 #1PP	Babcock & Wilcox	N/A		2,382,720	6,528	million Btu HHV	Conditioned daily throughput P/A # 762
S-4152	F-100 Asphalt Solution Heater SDA Isomax	M.W. Kellog	N/A		442,380	1,212	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4153	F-110 Asphalt Solution Heater SDA 150 Max	M.W. Kellog	N/A		442,380	1212	million Btu HHV	See Appendix 3B5. RLOP

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4154	F-120 Asphalt Solution Heater SDA Isomax	M.W. Kellog	N/A		442,380	1,212	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4155	F-135 Hot Oil Furnace	M.W. Kellog	N/A		1,830,840*	5016	million Btu LHV	PTO cond 8773
S-4156	F-320 Naphtha Vaporizer, H2 Plant Isomax	Born Engineering Co.	N/A		370,548	1,015	million Btu HHV	See Appendix 3B5. RLOP
S-4157	F-330 Naphtha Vaporizer, H2 Plant	Born Engineering Co.	MA-22		370,548	1,015	million Btu HHV	See Appendix 3B5. RLOP
S-4158	F-340 Natural Gas Heater, H2 Plant	Born Engineering Co.	N/A		366,168	1,152	million Btu HHV	Implied condition application #553/1572.
S-4159	F-410 TKC Feed Furnace TKC Isomax	Alcorn Combustion Co.	N/A		414,348	1,632	million Btu HHV	Subject to Condition 469 RLOP Conditioned daily throughput P/C# 16686
S-4160	F-420 TKC Feed Furnace TKC Isomax	Alcorn Combustion Co.	N/A		395,076	1,704	Million Btu HHV	Subject to Condition 469 RLOP Conditioned daily throughput P/C# 16686
S-4161	F-510 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4162	F-520 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4163	F-530 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4164	F-630 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput A/N

II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								19295 RLOP
S-4165	F-620 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput A/N 19295 RLOP
S-4166	F-610 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput A/N 19295 RLOP
S-4167	F-710 TKC Fractionator Isomax	Born Engineering Co.	N/A		1,007,400	3,480	million Btu HHV	Conditioned daily throughput A/N 2212
S-4168	F-730 Isocracker Splitter Feed Furnace Isomax	Born Engineering Co.	N/A		2,417,760	7,944	million Btu HHV	Conditioned daily throughput P/C# 16686 RLOP
S-4169	F-731 Isocracker Reboiler Isomax	Born Engineering Co.	N/A		2,277,600	6,240	million Btu HHV	Conditioned daily throughput A/N 19295 RLOP
S-4170	F-305 H2 Reforming Furnace, H2 Plant	Foster Wheeler	N/A			19,680	million Btu HHV	Conditioned daily throughput limit P/C# 16686 & 12.5 A/N-16392/3
S-4171	F-355 Reforming Furnace, H2 Plant	Foster Wheeler	N/A		7,183,200	19,680	million Btu HHV	Condition 16686 & 12.5 RLOP A/N 2936, 16392/3
S-4188	Polymer Furnace F-651	Born Engineering Co.	N/A		236,520	648	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								amended. Appendix 9F-3 & 12.21 RLOP
S-4189	Polymer Furnace F-661	Born Engineering Co.	N/A		122,640	360	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently amended. Appendix 9F-3 & 12.21 RLOP
S-4191	Alkane SRU Cooling Water Tower E-2900	Marley Cooling Tower	N/A				million gal	See appendix II (Roman), 9C-1, 12.3 & 14.1 RLOP
S-4192	F-2170 Stack Gas Heater #1 SRU CAT Crack.	Contractor	N/A		279,444.0	765.6	million Btu HHV	original design RLOP
S-4193	F-2270 Tail Gas Heater #2 SRU	Contractor	N/A		279,444.0*	765.6	million Btu HHV	original design RLOP
S-4194	F-2370 Tail Gas Heater #3 SRU	Contractor	N/A		491,436	1346	million Btu HHV	original design RLOP
S-4226	FGHT FCC Gasoline Hydrotreater	C.F. Braun	N/A			64,800	bbl	Condition #22641
S-4227	SRU #1 Train	Contractor	N/A		54,750	189.6 (Post-Modernization) The lesser of either: 345 Long Tons in any calendar day, or the throughput level determined through District-approved source testing to be maximum calendar	long tons	Condition #19063 # 24136 Part 87.a. Post-Modernization

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Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
						day throughput achievable while complying with all emissions limitations.		
S-4228	SRU #2 Train	Contractor	N/A		54,750	179 (Post-Modernization) The lesser of either: 345 Long Tons in any calendar day, or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations.	long tons	Condition #19063 Condition # 24136 Part 87.b. Post-Modernization
S-4229	SRU #3 Train	Contractor	N/A		106,835.5	336 Post-Modernization Modification (The lesser of either: 570 Long Tons in any calendar day, or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations. Post-Modernization)	long tons	Condition #19063 Condition # 24136 Part 87.c. Post-Modernization Modification
S-4233	#1 Jet Hydrotreater	Bechtel	N/A		35,040,000	96,000	bbl	PTO RLOP
S-4234	No. 5 Naphtha Hydrotreater	Bechtel	N/A		21,024,000	57,600	bbl	PTO RLOP
S-4235	Diesel Hydrotreater	C.F. Braun	N/A		23,652,000	64,800	bbl	PTO app.#9014 '93
S-4236	No. 4 Crude Unit	C.F. Braun	N/A			257,200	Bbl	RLOP C#469
S-4238	Liquefied Petroleum Gas	Fischer	N/A		10,000,000	27,400	bbl	Data form

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Loading Rack							RLOP
S-4250	Hydrogen Manufacturing Plant	Foster Wheeler	N/A		66,102	181.1	million SCF H ₂ produced	Two trains, highest day. Post 79 apps justify annual limit RLOP, Cond # 22979 and #469
S-4252	TKN Isocracker	Bechtel	N/A		18,709,900	60,900	bbl	See Appendix 3A4, 9P-4 & 12.10 RLOP
S-4253	TKC Plant	Bechtel	N/A		23,725,000 <u>(29,200,000 Post-Modernization)</u>	65,000 <u>Post-Modernization</u> <u>80,000 annual average</u> <u>96,000 calendar day</u>	bbl	Implied per application #9666 '90 data form <u>Condition # 24136 Part 80 Post-Modernization</u>
S-4282	Penhex Isomerization Unit	Bechtel	N/A		23,725,000	65,000	bbl	See Appendix 11 A/N 9231 BACT & CFP
S-4283	No. 4 Catalytic Reformer	Standard Oil	N/A		14,717,000	40,300	bbl	PTO RLOP
S-4285	FCC Plant	Fleur Eng. Corp	N/A		29,200,000	90,000	bbl	PTO, P/C# 11066 CFP
S-4286	Light Ends Recovery	South Western Engineering	N/A		N/A	N/A		Appendix 11.4 & 12.11 no limits per management direction, RLOP
S-4291	H ₂ SO ₄ Alkylation Plant	Socal/Warner Lewis	N/A		13,140,000	36,000	bbl	Condition #14701 CFP
S-4329	RLOP Cooling Tower	Lillie Hoffman	2DF87				million gal	RLOP

II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4330	HNHF Reactor Furnace, F-1610	LUMMUS	Horizontal			328.8	million Btu HHV	RLOP
S-4331	LNHF Reactor Furnace, F-1310	LUMMUS	Horizontal			501.6	million Btu HHV	RLOP
S-4332	Hot Oil Furnace, F-1360	LUMMUS	Horizontal			1754.4	million Btu HHV	RLOP
S-4333	TKC Vacuum Furnace, F-1750	LUMMUS	Horizontal			1504.8	million Btu HHV	RLOP
S-4334	LNC Atmos Furnace, F-1200	LUMMUS	Vertical Cylinder			607.2	million Btu HHV	RLOP
S-4335	LNC Vacuum Furnace, F-1250	LUMMUS	Horizontal			595.2	million Btu HHV	RLOP
S-4336	HNC Reactor Furnace, F-1410	LUMMUS	Horizontal			600.0	million Btu HHV	RLOP
S-4337	HNC Atmos Furnace, F-1500	LUMMUS	Vertical Cylinder			739.2	million Btu HHV	RLOP
S-4338	HNC Vacuum Furnace, F-1550	LUMMUS	Horizontal			864.0	million Btu HHV	RLOP
S-4339	LNC Reactor Furnace, F-1110	LUMMUS	Horizontal			456.0	million Btu HHV	RLOP 3
S-4340	Light Neutral Hydrocracker (LNC)	N/A	N/A			16,500	bbl liquid reactor feed	RLOP
S-4341	Light Neutral Hydrofinisher (LNHF)	N/A	N/A			22,000	bbl liquid reactor feed	RLOP
S-4342	Heavy Neutral Hydrocracker (HNC)	N/A	N/A			26,000	bbl liquid reactor feed	RLOP
S-4343	Heavy Neutral Hydrofinisher (HNHF)	N/A	N/A			12,000	bbl liquid reactor feed	RLOP
S-4345	No 2 NH3-H2S Plant (WWT)	N/A	N/A		Permit application pending	Permit application pending	million SCF H2S produced	RLOP
S-4346	Gas Recovery Unit (GRU)	N/A	N/A		N/A	N/A		Appendix 11.5 & 12.11

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								RLOP
S-4348	H2 Recovery Plant	N/A	N/A		18,250,000	50	Million-SCF Feed	-Application #9978 CFP
S-4349	Furnace F-1650	N/A	N/A		144,540	396	million-Btu HHV	Condition #469RLOP
S-4350	Gas Turbine with Steam Injection	ASEA Brown Boveri Turbines	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4351	Heat Recovery Steam Generator	ABB	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4352	Gas Turbine with Steam Injection	ASEA Brown Boveri Turbines	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4353	Heat Recovery Steam Generator	ABB	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4354	Butamer Plant	N/A	N/A			12,000 BPD	Barrels	Application #2719 Condition #18337
S-4355	Deisobutanizer Plant	N/A	N/A		14,600,000 combined/4,380,000 Butamer	40,000 combined/12,000 Butamer	bbl	Application #9978, Appendix 9P-1 & 12.17 CFP
S-4356	Tertiary Amyl Methyl Ether Plant	N/A	N/A		5,475,000	15,000	bbl depentanizer	Application #9978

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
							feed	CFP
S-4360	Perc Storage Tank, V1315	N/A	N/A	2558 gallons	20,464	2558 gal	gal	Condition #C-23765, application 15914
S-4363	Perc Storage Tank, V3592	N/A	N/A	2260 gallons	108,480	2260	gal	Condition #23773, application 15914
S-4364	Perc Storage Tank, V4091	N/A	N/A	370 gallons	91,760	370	gal	Condition #23774, application 15914
S-4365	Tank	Fixed roof	N/A	400 gallons	15,000	N/A	Gal non-exempt stocks	Condition #24452
S-4366	Tank	Fixed Roof	N/A	400 gal	10,000	N/A	Gal non-exempt stocks	Condition #24604
S-4367	Tank	Fixed Roof	N/A	400 gal	5,000	N/A	Gal non-exempt stocks	Condition #24604
S-4368	Tank	Fixed Roof	N/A	400 gal	5,000	N/A	Gal non-exempt stocks	Condition #24604
S-4369	Tank	Fixed Roof	N/A	400 gal	15,000	N/A	Gal non-exempt stocks	Condition #24604
S-4370	Tank	Fixed Roof	N/A	400 gal	4,000	N/A	Gal non-exempt stocks	Condition #24604
S-4372	Tank	Fixed Roof	N/A	400-gal	5,000	N/A	Gal	Condition #24606
S-4373	Tank	Fixed Roof	N/A	400 gal	28,000	N/A	Gal non-exempt stocks	Condition #25001
S-4374	Tank	Fixed Roof	N/A	400 gal	10,000	N/A	Gal non-exempt stocks	Condition #25479
S-4375	Tank (chemical trailer container)	Fixed Roof	N/A	7,000 gal	180,000	N/A	gallons	Condition #25785
S-4396	Sulfur Truck Loading Racks	2-Lawrence Pumps	N/A		246,330		long-tons	See Appendix XII for daily limit. Annual limit based on source# 4227, 4228 & 4229. Appendix 9M-1, 12.2 &

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								13.1, RLOP
S-4401	Ranch Area Maintenance Yard Prime Diesel Engine Generator	Cummins	QSB7-G9	282-bhp		0-10992	Lb-diesel exhaust particulate matter	0.00458-lb/hr x 24-hr/d, Condition #26127
S-4403	Unrefined Wax Truck Loading Rack							RLOP
S-4404	Saturated Refined Wax Truck Loading Rack							RLOP
S-4405	Heavy Oil Transloading Operation				100,000	7000	gallon	A/N 7693 condition #20863
S-4413	#2a Separator	API Oil Water Separator	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	8.35 (annual limits are different but these #s are the same as first proposed)	million gal	1987 data form & eval
S-4414	#1a Separator	API Oil Water Separator	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	16.7	Million gal	1987 data form & eval
S-4415	Asphalt Tank Truck Loading Racks		N/A		91,980,000	238,000 (when A-37 is down for cleaning or repair)	gal	PTO condition #1331 and data form
S-4426	Cold Cleaner	Graymills Clean-O-Matic, or comparable make/model	N/A		100	N/A	gal	Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4427	Cold-Cleaner	Graymills Clean-O-Matic or comparable make/model	N/A		100	N/A	gal	Conditioned annual throughput limit, P/C# 17527.

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4428	Cold Cleaner	Graymills Clean-O-Matic or comparable make/model	N/A		100	N/A	gal	Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4429	#8 Plant	N/A	N/A		850.45	2.5	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4433	#3 H2S Plant	N/A	N/A		335.8	1.1	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4434	#4 H2S Plant	N/A	N/A		1,624.25	4.97	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4435	#5 H2S Plant	N/A	N/A		3128	8.57 Post-Modernization 9.60	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4490	Sulfur Loading Truck Rack	N/A	N/A		216,330	593	Long tons	Condition #25814
S-4440	Jet Additive Project Fugitive	N/A	N/A		0.718	N/A	tons of POC emissions per	P/Condition

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Sources, at No.7 and No. 21 Pump Stations						365-day period	#24674
S-4436	F-2170 Stack Gas Heater No. 1 SRU					765.60	MMBtu (HHV)	Condition # 24136 Part 86.d. Post-Modernization
S-4437	F-2270 Stack Gas Heater No. 2 SRU					765.60	MMBtu (HHV)	Condition # 24136 Part 86.d. Post-Modernization
S-4438	F-2370 Stack Gas Heater No. 3 SRU					1,346.0 Post-Modernization	MMBtu (HHV)	Condition # 24136 Part 86.d. Post-Modernization
S-4440	Jet Additive Project Fugitive Sources, at No.7 and No. 21 Pump Stations	N/A	N/A		0.718	N/A	tons of POC emissions per 365-day period	P/Condition #24671
S-4441	No. 17 Pump Station Project Fugitive Components	N/A	N/A		0.8540.743	N/A	tons of POC emissions per 365-day period	Condition #25176
S-4449	Hydrogen Plant Train #1					140 calendar day maximum 244 (annual average basis combined w/ S-4450)	MMSCF	Condition # 24136 Part 5
S-4450	Hydrogen Plant Train #2					140 calendar day maximum 244 (annual average basis combined w/ S-4499)	MMSCF	Condition # 24136 Part 5
S-4451	Hydrogen Recovery Plant					50	MMSCF	Condition # 24136 Part 6
S-4454	#6 H2S Plant Recycle Amine				3.358	11	MMSCF	Condition # 24136

II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Generator							Part 77
S-4465	Hydrogen Plant Cooling Water Tower	Midwest Towers, Inc.	CFT4236-2806-03			51.84	Million Gal	Condition # 24136 Part 21
S-4471	Hydrogen Plant Train #1 Forced Draft Reformer Furnace	Lurgi, Technip			8,059,200	22,800	MMBTU HHV	Condition # 24136 Part 12
S-4472	Hydrogen Plant Train #2 Forced Draft Reformer Furnace	Lurgi, Technip			8,059,200	22,800	MMBTU HHV	Condition # 24136 Part 12
S-4481	Tank T-1501 (storing corrosion inhibitor)	Fixed Roof	N/A	540 gal	95	N/A	bbl	Condition #26815
S-4482	Tank T-2501 (storing corrosion inhibitor)	Fixed Roof	N/A	540 gal	30.5	N/A	bbl	Condition #26815
S-4483	Tank T-3504 (storing corrosion inhibitor)	Fixed Roof	N/A	540 gal	30.5	N/A	bbl	Condition #26815
S-4490	Sulfur Loading Truck Rack	N/A	N/A		216,330 Post-Modernization 273,750	592.7 annual average basis 1,387 calendar day Post-Modernization 750 annual average basis 1,887 calendar day	Long tons	Post-Modernization Condition #25814 Part 2 Condition #24136 Part 79
S-4940	Tank D-4940, Chemical Additives Tank	Fixed roof	N/A	1450	7,028		Gal	P/Condition # 23001
S-6010	High Level Flare, LSFO	John Zink	STF SA365		34,711.5*	95.04	million Btu HHV	Data form used HHV RLOP

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-6012	V-282 South Isomax Flare	Contractor	N/A		22,301.5*	61.1	million Btu HHV	Data form used HHV RLOP
S-6013	North Isomax Flare V-281	Contractor	N/A		22,301.5*	61.1	million Btu HHV	Data form used HHV RLOP
S-6015	Refinery Waste Gas Flare	John Zink	N/A		28,900	79.2	million Btu HHV	Implied per application #17855. Appendix 9M-2 RLOP
S-6016	FCC Flare V-731	Natural Gas, Tangential, Firing, Natural Draft	N/A		40,874.16*	112	million Btu HHV	Data form used HHV CFP
S-6017	Alkane Flare	Contractor	N/A		23,049	63.1	million Btu HHV	Converted to HHV RLOP
S-6019	V-732, Alky-Poly Flare	Contractor	N/A		26,306*	72.1	million Btu HHV	times 1.0476 CFP
S-6021	Hydrogen Plant Flare				14.016 (1.6 x 8760)	38.4 (1.6 x 24)	million Btu HHV pilots	Permitted under A# 12842 1.6 MMBTU/hr pilot throughput limit only
S-6021	Hydrogen Plant Flare				97.8 MMscf 12-month consecutive period	N/A	million Btu HHV	Condition 24136 Application 29037 Supplemental (sweep + assist) gas
S-6022	Refillable tote (storing corrosion inhibitor)	Fixed Roof	N/A	400 gal	1,825	N/A	gallon	Condition #26558
S-6039	Lube Flare, V-3501	48 Inch	N/A		19,053	52.2	million Btu HHV	times 1.0476 RLOP

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-6051	ALKY Cooling Tower	Marley	400		15,768.00	43.2	Million gal	Implied, A/N13023 , Cond #14596,
S-6125	Tank 6125	Abated Fixed Roof	N/A	600 gal	1,400	N/A	bbl non-exempt stock	Conditioned annual throughput limit (non-exempt stock), P/C# 11208
S-6200	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6201	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6202	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6203	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6204	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6205	Portable	Abated Fixed	N/A	6500 gal	36,000	N/A	bbl non-	Conditioned

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Polyethylene Storage Container	Roof			(sum of S-6200 thru S-6219)		exempt stock (calendar year)	annual throughput limit (non-permit exempt stock), P/C# 10761
S-6206	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6207	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6208	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6209	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6210	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6211	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								10761
S-6212	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6213	Portable Polyethylene Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6214	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6215	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6216	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6217	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6218	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								10761
S-6219	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6220	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6221	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6222	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6223	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6224	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6225	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								10761
S-6226	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6227	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6228	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6229	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6230	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6231	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6232	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								10761
S-6233	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6234	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6235	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6236	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6237	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6238	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6239	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761

II. Equipment

Table II A 1 - Permitted Sources (New Source Review and other enforceable limits)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities and the throughput limits in this table are the maximum allowable capacities and throughput limits for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								10761
S-7013	SRU Stationary Standby Generator set, Diesel Engine	Cummins		750 hp	50 hr/y	N/A	Hours for reliability-related testing	App#12975 Condition 22850 Cond #22569
S-7534	Plant Protection Emergency Standby Generator, Diesel Engine	Cummins	QSL9-G3	399 Hp	50 hrs/yr of per NFPA25	N/A	Hours for reliability-related testing	App# 16590/1 Cond #22850
S-7535	Emergency Standby Fire Pump, Diesel Engine	Cummins	CFP15E-F10	479 Hp	50 hrs/yr of per NFPA25	N/A	Hours for reliability-related testing	App# 17175 Cond #22850
S-7536	Emergency Standby Fire Pump, Diesel Engine	Cummins	CFP15E-F10	479 Hp	50 hrs/yr of per NFPA25	N/A	Hours for reliability-related testing	App# 17175 Cond #22850
S-7537	Primary FCCU Pump, Diesel Engine	Deutz	BF6L914C	158 Hp	none	N/A	N/A	App# 17428 Cond #24022
S-7538	Diesel engine gen-5H2S-1	MTU Detroit Diesel	12V4000G43	2328 Hp	50		Hours for reliability-related testing	Condition 22850
S-7539	Diesel Engine	Caterpillar	C-13	440 hp	50		Hours for reliability-related testing	Condition 24285 and 22850
S-7541	Emergency Standby Diesel Fire Pump Engine	Caterpillar	C18 DITA	700 bhp	50	N/A	Hours for reliability-related testing	Condition # 22850
S-7542	Emergency Standby Diesel Fire Pump Engine	Caterpillar	C18 DITA	700 bhp	50	N/A	Hours for reliability-related testing	Condition # 22850
S-7543	Emergency Standby Diesel Fire Pump Engine	Clarke	JW6H-UFADDO	351 bhp	50	N/A	Hours for reliability-related testing	Condition # 22850
S-7601	Inkjet Printing Operation	Domino			30 gal ink 36 gal cleanup solvent		gallon	App#11503 Cond#22266

II. Equipment

Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-0399	Tank	External Floating Roof	N/A	4368K gal	3,500,000	N/A	Bbl non-exempt stock	Form T application #3061
S-1292	Tank	External Floating Roof	N/A	4834K gal	4,802,722	N/A	Bbl non-exempt stock	Annual Source Update 1989
S-1488	Tank	External Floating Roof	N/A	1197K gal	365,000	N/A	bbl by roof drop	Implied limit App.#31398 '86
S-1637	Tank	Internal Floating Roof	N/A	105K gal	1,750,000	N/A	bbl	App. #179 '86 Implied permit condition
S-1908	Tank 908	Abated-Fixed-Roof	N/A	953K-gal	1,750,000	N/A	bbl	Conditioned annual throughput, P/C# 4233
S-1909	Tank	Fixed-Roof	N/A	5300-gal	11,700	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 11208
S-1911	Tank	Fixed-Roof	N/A	4500-gal	9,900	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 11208
S-2917	Tank 917	Abated-Fixed-Roof	N/A	49K-gal	20,000	N/A	bbl	Conditioned annual throughput, P/C# 4233
S-2918	Tank 918	Abated-Fixed-Roof	N/A	49K-gal	20,000	N/A	bbl	Conditioned annual throughput, P/C# 4233
S-2921	Tank 921	Abated-Fixed-Roof	N/A	9351-gal	5,000	N/A	bbl	Conditioned annual throughput, P/C# 4233
S-3075	Tank	External Floating Roof	N/A	1680K gal	520,000	N/A	bbl	See Appendix 1B1 App#28073 A/C issued Throughput used in Evaluation
S-3076	Tank	External Floating Roof	N/A	8625.51K gal	5,914,000	N/A	bbl	Form T '82 design drawings submitted 1/164

II. Equipment

Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-3102	Tank	External Floating Roof	N/A	22MM gal	8,213,000	N/A	bbl non-exempt stock	Per emissions calculation & data form T from App.#27916 '81
S-3107	Tank	External Floating Roof	N/A	25MM gal	25,848,000	N/A	bbl non-exempt stock	App.#12635 '94 implied condition verified
S-3144	Tank	Abated Fixed Roof	N/A		216,330	N/A	long tons	App.'s 10721 & 32587-'93 & '88 A/N 9329 and C#1046
S-3144	Tank	External Floating Roof	N/A	336K gal	36,500	N/A	bbl hydrocarbon	Form T '89 & '93
S-3180	Tank	External Floating Roof	N/A	6807.87K gal	11,000,000	N/A	bbl non-exempt stock	design drawings submitted 1/16/4 Implied permit condition (alkylate) app.#4361 '90
S-3192	Tank	Pressure Tank	N/A	2600K gal	750,952	2,057	bbl	App.# 6035
S-3220	Tank	External Floating Roof Tank	N/A	7699K gal	12,466,000	N/A	Bbl non-exempt stock	Condition #17553
S-4076	3-4 Cat Cooling Tower E-460	Fluor Prod Co	N/A				million gal	
S-4148	#13 Separator	API Separator Fresh Water	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	20	million gal	Data form. 1980 PTO
S-4172	Isomax Cooling Tower E-261	Fluor Cooling Tower	N/A				million gal	
S-4173	FCC Cooling Tower E-740	Fluor Cooling Tower	N/A				million gal	
S-4187	FCC Polymer Cooling Tower E-781	Windeler Cooling Tower	N/A		2,418	7	million gal	See appendix II (Roman)
S-4237	No. 5 Rheniformer	Bechtel	N/A		10,352,000	31,000	bbl feed	6 months x2, based on a maximum of 3 regens/yrA/N 6014 RLOP
S-4251	Solvent Deasphalting (SDA) Plant	M.W. Kellog	N/A		20,440,000 18,250,000	56,000 50,000 annual average basis	Bbl feed	App.#9163 and 28218

II. Equipment

Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
						66,000 calendar day		
S-4292	FCC Polymer Plant	Socal/Warner Lewis	N/A		2,920,000	8000	bbl feed	Application #7948 pending
S-4393	Bio-Reactor		N/A		7140	62.5	million gal	See Appendix 10.2, data form '81
S-4410	General Maintenance Paint Booth		N/A		500 coatings 55 solvents	N/A	gal	Per District data base. No daily limit. Intermittent usage only A/N 5591
S-4420	Solvent Cleaner-Machine Shop	Graymills-Clean-O-Matic or comparable make/model	N/A		200	N/A	gal	Per District database. No daily limit. Intermittent usage only A/N 31912
S-4424	Paint Booth		N/A		2500	9.8	Pounds	Condition #21165 application #8161
S-6050	MTBE Plant	NA	N/A		7,665,000	23,000	bbl C4 feed	Daily based on PTO, annual based on app. #7304, Appendix 9P-12.
S-6250	Oil-Water Separator for Debr	N/A	N/A		415,500	N/A	bbl	Appendix 9M-3 App.#25134
7501	Diesel Engine P-100B	Caterpillar	3414C	538 HP	400 <u>20</u>		Hours for reliability-related testing <u>Hours</u>	Condition 20225 <u>22820</u>
7507	Diesel Engine P-11	Caterpillar	3406TA16	398 HP	<u>20</u>		Hours for reliability-related testing	Condition 22820 <u>20225</u>
7508	Diesel Engine P-15	Cummins	855P310	240 HP	<u>20</u>		Hours for reliability-related testing	Condition 22820 <u>Regulation 9-8-330</u>
7509	Diesel Engine P-16	Cummins	855P310	240 HP	<u>20</u>		Hours for reliability-related testing	Condition 22820 <u>Regulation 9-8-330</u>

II. Equipment

Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
7511	Diesel Engine P-3	Caterpillar	3406	482 HP	20		Hours for reliability-related testing	Condition 22820 Condition 20225
7512	Diesel Engine P-3000	Detroit Diesel	70637600	269 HP	20		Hours for reliability-related testing	Condition 22820 Condition 20225
7513	Diesel Engine P-302A	Caterpillar	3412	450 HP	50		Hours for reliability-related testing	Condition 24070
7514	Diesel Engine P-302B	Caterpillar	3412	450 HP	50		Hours for reliability-related testing	Condition 24070
7515	Diesel Engine P-351A	Caterpillar	3412	624 HP	20		Hours for reliability-related testing	Condition 20225 and 22820
7516	Diesel Engine P-351B	Caterpillar	3412	624 HP	20		Hours for reliability-related testing	Condition 20225 and 22820
7517	Diesel Engine P-361A	Detroit Diesel	80877800	163 HP	20		Hours for reliability-related testing	Condition 22820 Condition 20225
7521	Diesel Engine D-1601	Cummins	A855C450	435 HP	20		Hours for reliability-related testing	Condition 22820 Condition 20225
7523	IC Engine, diesel D-1603	Cummins	A855C450	435 hp	50		Hours for reliability-related testing	Condition 24070
7530	Gas Engine Admin #1	Hercules	G2300	217 HP			Hours	Regulation 9-8-330
7531	Diesel Engine Admin #2	Detroit Diesel	80637305	370 HP	20		Hours for reliability-related testing	Condition 22820 Condition 20225
S-9304	Non Retail Gasoline Dispensing Facility	2 nozzles EW 4005, No trap	N/A		107,623*	294.9	bbl	7880, 18680, 22951, 24294

II. Equipment

Table II A 3 – Permitted Sources (Grandfathered)

Table II A 3 – Permitted Sources (Grandfathered)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-0024	Tank	Fixed Roof	N/A	750-gal	30,000	N/A	gal	Conditioned annual throughput, P/C# 5270
S-0231	Tank	External Floating Roof	N/A	1260K gal	15,330	N/A	1000 gal	Form T '77
S-0232	Tank	External Floating Roof	N/A	1344K-gal	268,308	N/A	bbf	See Appendix 9T-4 highest-6 month throughput times-2 (H6Mx2)
S-0297	Tank	External Floating Roof	N/A	2528K-gal	5,475,000	N/A	bbf	Data form
S-0298	Tank	External Floating Roof	N/A	2486K-gal	5,110,000	N/A	bbf	Data form
S-0634	Tank	External Floating Roof	N/A	2499K-gal	1,900,000	N/A	Bbf	Form T, Appendix 11.1
S-0953	Tank	External Floating Roof	N/A	3717K-gal	3,337,346	N/A	bbf	See Appendix 9T-4 highest-6 month throughput times-2 (H6Mx2)
S-0954	Tank	External Floating Roof	N/A	2659K gal	1,971,000	N/A	bbf	1977 data form T
S-0990	Tank	External Floating Roof	N/A	3738K gal	4,264,814	N/A	Bbf non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-0991	Tank	External Floating Roof	N/A	4549K gal	5,342,125	N/A	Bbf non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)

II. Equipment

Table II A 3 – Permitted Sources (Grandfathered)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-1287	Tank	External Floating Roof	N/A	2579K gal	1,038,000	N/A	bbl non-exempt stock	Appendix 11.1 highest 6 month throughput times 2 (H6Mx2)
S-1289	Tank	Internal Floating Roof	N/A	1294K gal	293,185	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1434	Tank 907	Abated Fixed Roof	N/A	924K gal	12,264	N/A	1000 gal	Form T
S-1444	Tank	External Floating Roof	N/A	790K gal	620,500	N/A	Bbl non-exempt stock	Form T
S-1459	Tank	External Floating Roof	N/A	3163K gal	1,524,966	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1491	Tank	External Floating Roof	N/A	2096K gal	1,093,160	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1504	Tank	External Floating Roof	N/A	1373K gal	602,132	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1518	Tank	External Floating Roof	N/A	2764K gal	1,095,000	N/A	bbl non-exempt stocks	Form T
S-1633	Tank	Internal Floating Roof	N/A	151K gal	6,132	N/A	1000 gal non-exempt stock	Form T
S-1686	Tank	External Floating Roof	N/A	3238K gal	15,330	N/A	1000 gal	Form T
S-1687	Tank	External	N/A	6329K gal		N/A	bbl non-	Form T

II. Equipment

Table II A 3 – Permitted Sources (Grandfathered)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
		Floating Roof					exempt stock	condition #21237
S-1688	Tank	External Floating Roof	N/A	6052K gal	5,059,000	N/A	bbl non-exempt stock	Implied permit condition from data form T '77 unable to locate app. #10313
S-1843	Tank	External Floating Roof	N/A	192.78 K gal	36,500	N/A	bbl non-exempt stock	Data form T '77 Check App. 9099? Design drawings submitted 1/16/4
S-1966	Tank	External Floating Roof	N/A	1987K gal	767,646	N/A	bbl non-exempt stock	highest 6 months throughput x2
S-3071	Tank	External Floating Roof	N/A	7808K gal	8,560,287	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-3072	Tank	External Floating Roof	N/A	6493K gal		N/A	bbl non-exempt stock	condition #21237
S-3073	Tank	External Floating Roof	N/A	4914K gal	3,991,000	N/A	bbl non-exempt stock	Appendix 11.1 highest 6 month throughput times 2 (H6Mx2)
S-3101	Tank	External Floating Roof	N/A	19925K gal		N/A	bbl non-exempt stock	Condition #21237
S-3103	Tank	External Floating Roof	N/A	22MM gal	21,128,000	N/A	bbl non-exempt stock	Monthly data showing 6 months times 2 = annual limit for tanks and crude unit
S-3104	Tank	External Floating Roof	N/A	31MM gal	22,676,000	N/A	bbl non-exempt stock	Monthly data showing 6 months times 2 = annual limit for tanks and crude unit
S-3105	Tank	External	N/A	31MM gal	29,455,000	N/A	bbl non-	Monthly data

II. Equipment

Table II A 3 – Permitted Sources (Grandfathered)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
		Floating Roof					exempt stock	showing 6 months times 2 = annual limit for tanks and crude unit
S-3128	Tank	External Floating Roof	N/A	1939.58 Kgal	975,000	N/A	bbl non-exempt stock	See Appendix 2B5 & Form T '78 design drawings submitted 1/16/4
S-3129	Tank	External Floating Roof	N/A	4502 Kgal	4,970,210	N/A	bbl non-exempt stock	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-3140	Tank	Abated Fixed Roof	N/A		216,330	N/A	long tons	Based on the SRU plant throughput. Source no 4227, 4228, 4229. Appendix 12.2 & 13.4
S-4073	LSFO Cooling Tower	Bechtel	N/A		13,666	37	million gal	See appendix II (Roman)
S-9321	Marine Loading Berth #1		4 loading arms		146,628(sum of volume loaded at 9321 through 9326)		1000 bbl	See Appendix 11.6 six months highest actual data times two
S-9322	Marine Loading Berth #2		18 gasoline/ gasohol arms		146,628(sum of volume loaded at 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9323	Marine Loading Berth #3		6 gasoline/ gasohol arms		146,628(sum of volume loaded at 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9324	Marine Loading Berth #4		gasoline/ gasohol arms		146,628(sum of volume loaded at 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9325	Marine Loading		15 gasoline/		146,628(sum of		1000 bbl	See Appendix

II. Equipment

Table II A 3 – Permitted Sources (Grandfathered)

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Berth #9		gasohol arms		volume loaded at 9321 through 9326)			11.6, six months highest actual data times two
S-9326	Marine Loading Berth #11		2 gasoline/gasohol arms		146,628(sum of <u>volume loaded at 9321 through 9326)</u>		1000 bbl	See Appendix 11.6, six months highest actual data times two

II. Equipment

Table II B – Abatement Devices
Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0008	Kiln—Baghouse, Filter Building Baghouse, Reverse Air	S-4094	6-301		Ringelmann 1—6-310.3 0.15 grams/dscf @ 6% O ₂
A-0014	K-13, FCC Electrostatic Precipitator, Single Stage Electrostatic Precipitator	S-4285	6-302, 6-502	Opacity Monitor	20% Opacity Limitation for more than 3 minutes in any hour
			40 CFR 60 Subpart J 60.102(a) (2), 40 CFR 60 Subpart J 60.105(a) (1)	Opacity Monitor	30 % opacity, except for one 6 minute average opacity reading in 1 hour
			6-310		0.15 grain FP /dscf
			6-311		40 lb/hr particulate matter (PM)
			40 CFR 60 Subpart J 60.102(a) (1)		1.0 kg of PM per 1000 kg of coke burn off in catalyst generator
			Condition #11066 Item #3		92 TPY TSP
			Condition #11066 Item #7		21 lb TSP/hr, average of four source tests per calendar year
			Condition #11066 Item #15		Ammonia (NH3) injection rate shall not exceed 500 lbs/hr
			Condition #11066 Item #7a4	Inlet temperature monitor and recorder	Minimum of 550 F ESP Inlet Temp. averaged over any one-hour period
			Condition #11066 Item #7a5, Condition #11066 Item #7a3	Monitor	Average secondary current of TR shall not be less than 200 milliamps averaged over any three hour period or No more than 2 TR sets may be less than 200 milliamps averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period
A-0020	Tail Gas Unit for 2100 Plant, #1 SRU Train, Absorption and Regeneration	S-4227 S-4436192	9-1-307, 1-520	SO2 CEM	250 ppmv SO2, dry, at 0% oxygen

II. Equipment

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0020	Tail Gas Unit for 2100 Plant, #1 SRU Train, Absorption and Regeneration Wellman-Lord Tail Gas Unit (oxidation control system)	S-4227 S-4436	Condition # 24136 Part 86.d. Post-Modernization Condition #24136 Part 92 Condition #24136 Part 90	Maximum firing rate Thermal Oxidizer Burner	739.0 MMBTU/day HHV (S-4227) 765.60 MMBTU/day HHV (S-4436) Mass limits (except S/U & S/D) NOx 15.38 tn/yr CO 28.08 tn/yr, 222.72 lb/d SO2 21.39 tn/yr PM10 1.44 tn/yr, 9.8 lb/d POC 0.76 tn/yr, 9.8 lb/d H2S 4.0 ppm SAM 0.673 lb/hr Combined A-120,A-121, A-122 (Post-SRU3 Modernization) NOx 62.33 tn/yr CO 113.80 SO2 86.70 PM10 5.34 POC 2.84 H2S 4.0 ppm, dry, corrected to 0% O2 SAM 1.856 lb/hr
A-0021	Tail Gas Unit for 2200 Plant, #2 SRU Train, Absorption and Regeneration	S-4228 S-4437 S-4439	9-1-307, 1-520	SO2 CEM	250 ppmv SO2, dry, at 0% oxygen

II. Equipment

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0021	<p>Tail Gas Unit for 2200 Plant, #2 SRU Train, Absorption and Regeneration</p> <p>Wellman-Lord Tail Gas Unit (oxidation control system)</p>	<p>S-4228 S-4437</p>	<p>Condition # 24136 Part 86.d</p> <p>Condition #24136 Part 92</p> <p>Condition #24136 Part 90. Post-Modernization</p>	<p>Maximum firing rate</p> <p>Thermal Oxidizer Burner</p>	<p>739.0 MMBTU/day HHV</p> <p>765.60 MMBTU/day HHV (S-4437)</p> <p>Mass limits (except S/U & S/D)</p> <p>NOx 15.38 tn/yr</p> <p>CO 28.08 tn/yr, 173.52 lb/d</p> <p>SO2 21.39 tn/yr</p> <p>PM10 1.30 tn/yr, 9.8 lb/d</p> <p>POC 0.76 tn/yr, 9.8 lb/d</p> <p>H2S 4.0 ppm</p> <p>SAM 0.425 lb/hr</p> <p>Combined A-120.A-121, A-122 (Post-SRU3 Modernization)</p> <p>NOx 62.33 tn/yr</p> <p>CO 113.80</p> <p>SO2 86.70</p> <p>PM10 5.34</p> <p>POC 2.84</p> <p>H2S 4.0 ppm, dry, corrected to 0% O2</p> <p>SAM 1.856 lb/hr</p>
A-0022	Tail Gas Unit for 2300 Plant, #3 SRU Train, Absorption and Regeneration	S-4229 S-4194	9-1-307, 1-520	SO2 CEM	250 ppmv SO2, dry, at 0% oxygen

II. Equipment

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0022	Tail Gas Unit for 2300 Plant, #3 SRU Train, Absorption and Regeneration Wellman-Lord Tail Gas Unit (oxidation control system)	S-4229 S-4438	Condition # 24136 Part 86.d. Post-Modernization Modification Condition #24136 Part 92 Condition #24136 Part 90.	Maximum firing rate Thermal Oxidizer Burner	1.080.0 MMBTU/day HHV 1,346.0 MMBTU/day HHV (S-4437) Post-SRU3 Modernization Mass limits Post-SRU3 Modernization (except S/U & S/D) NOx 31.57 tn/yr CO 57.64 tn/yr, 325.44 lb/d SO2 43.92 tn/yr PM10 2.60 tn/yr, 9.8 lb/d POC 1.32 tn/yr, 9.8 lb/d H2S 4.0 ppm SAM 0.758 lb/hr Combined A-120,A-121, A-122 (Post-SRU3 Modernization) NOx 62.33 tn/yr CO 113.80 SO2 86.70 PM10 5.34 POC 2.84 H2S 4.0 ppm, dry, corrected to 0% O2 SAM 1.856 lb/hr
A-0037	Mist Eliminator Scrubber, Fibrous Packed Scrubber – Asphalt Loading Racks	S-4415	Condition #1331		10% maximum opacity
A-0043	Sulfur Tanks and Loading Raeks Vent Water Scrubber, Venturi Scrubber	S-3141 S-3140 S-4396 S-3226 S-3234			
A-0044	Sulfur Tanks and Loading Raeks Vent Caustic Scrubber, Venturi Scrubber	S-4396 S-3226 S-3234			
A-0065	Hydrofinisher SCR Unit (HNHF, LNHF, Hot Oil Furnace), Unclassified Abatement Device	S-4330 S-4331 S-4332	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBtu

II. Equipment

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/MMBTU
A-0066	TKC SCR Unit; Unclassified Abatement Device, (TKC Vac Furnace, LNC)	S-4333 S-4334 S-4335	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBTU
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/ MMBTU
A-0067	HNC Hydrocracker SCR Unit, Unclassified Abatement Device	S-4336 S-4337 S-4338 S-4339	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBTU
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/ MMBTU
A-0070	Cogeneration Unit Train 1000 CO/HC Catalyst Unit, Unclassified Abatement Device	S-4350 S-4351	Condition #1162 Part 10, Part 11	Continuous CO monitors	CO reduced by 80%, NMHC reduced by 50%
A-0072	Cogeneration Unit Train 1000 SCR Unit; SCR Nox Reduction Catalyst, Unclassified Abatement Device	S-4350 S-4351	Condition #1162 Part 6	Continuous Nox monitor	Nox <10ppm @ 15% O2 – 3-hr average; except startup/ shutdown
			9-9-301.2 and 3, 9-9-501	Nox CEM	5 or 9 ppmv @ 15% O2 (dry) depending on fuels used
			9-9-301.2 and 3		25 ppmv @ 15% O2 (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods
			NSPS Subpart Db, 60.44b (e) refers to 60.44b(a)4 for combined cycle system	Nox CEM, fuel gas flow meters, calorimeter on fuel gas	0.2 lb/MMBTU as a 30-day rolling average
			Condition #1162, Part 18		20 ppm NH3

II. Equipment

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0071	Cogeneration Unit Train 2000 CO/HC Catalyst Unit, Unclassified Abatement Device	S-4352 S-4353	Condition #1162, Parts 10, 11	Continuous CO monitors	CO reduced by 80%, NMHC reduced by 50%
A-0073	Cogeneration Unit Train 2000 SCR Unit; SCR Nox Reduction Catalyst, Unclassified Abatement Device	S-4352 S-4353	Condition #1162, Part 6	Continuous Nox monitor	Nox <10 ppm @15% O ₂ – 3-hr average; except startup/ shutdown
			9-9-301.3, 9-9-501	Nox CEM	10.8 ppmv ⁴ @15% O ₂ (dry) adjusted from 9 ppm Nox limit to 10.8 ppm Nox limit because of thermal efficiency (9-9-401)
			9-9-301.3		25 ppmv @ 15% O ₂ (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods
			NSPS Subpart Db, 60.44b (e) refers to 60.44b(a) for combined cycle system	Nox CEM, fuel gas flow meters, calorimeter on fuel gas	0.2 lb/MMBtu as a 30-day rolling average
			Condition #1162, Part 18		20 ppm NH ₃
A-0094	Thermoform Kiln Stack Burner (S-4094), Direct Flame Afterburner, Stack Burner	S-4094	8-1110.3 and condition 20794	Minimum temperature and continuous temperature monitor and recorder	At least 90% destruction of organics
A-120	Sulfur Recovery Unit Train #1, Wet Electrostatic Precipitator (WESP)	S-4227	Condition #24136 Part 88 Post-Modernization	Inlet Water Flow Inlet Temperature , Secondary Current of TR	Minimum abatement efficiency of 90 wt% for PM10 and Sulfuric Acid Mist PM10: 0.504 lb averaged over one hour
A-121	Sulfur Recovery Unit Train #2, Wet Electrostatic Precipitator (WESP)	S-4228	Condition #24136 Part 88 Post-Modernization	Inlet Water Flow Inlet Temperature , Secondary Current of TR	Minimum abatement efficiency of 90 wt% for PM10 and Sulfuric Acid Mist 0.450 lb PM10 averaged over one hour
A-122	Sulfur Recovery Unit Train #3, Wet Electrostatic Precipitator (WESP)	S-4229	Condition #24136 Part 88 Post-Modernization Modification	Inlet Water Flow Inlet Temperature , Secondary Current of TR	Minimum abatement efficiency of 90 wt% for PM10 and Sulfuric Acid Mist 0.884 lb PM10 averaged over one hour
A-260	Hydrogen A-Train SCR Unit (Furnace F-305), Unclassified Abatement Device	S-4170	9-10-301	CEMs for both Nox and O ₂	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/MMBtu

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Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-260	Hydrogen A-Train SCR Unit (Furnace F-305), Unclassified Abatement Device	S-4170	9-10-303	CEMs for both NOx and O2	Federal interim emissions: (excluding CO Boilers): 0.20 lbs NOx/MMBtu
A-0261	Scrubber for De-aerator Vent Methanol Abatement for Hydrogen Plant "A" Train, (V-311)	S-4250	Condition #15698, 8-2	Continuously monitor: Washwater Temperature, Vent Flow, Washwater Flow	Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average water temp < 90F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gal/min, water/vent flow ratio > 11.6
A-0262	Scrubber/Condenser for De-aerator Vent Methanol Abatement for Hydrogen Plant (S-4250) "B" Train (V-361)	S-4250	Condition #15698, 8-2	Continuously monitor: Washwater Temperature, Vent Flow, Washwater Flow	Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average water temp < 90F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gal/min, water/vent flow ratio > 11.6
A-0302	Hydrogen Plant Train #1 Selective Catalytic Reduction (SCR)	S-4471	Condition #24136, Parts 8 – 16	CEMs for NOx, CO, and O2 District approved source tests for PM10, POC, SO2, ammonia slip	NOx: 5.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period when SCR catalyst bed temperature ≥ 562F CO: 10.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period PM10: 0.0026 #/MMBTU(HHV) averaged over 3-hours POC: 0.00288 #/MMBTU(HHV) averaged over 3-hours SO2: Part 9c of Condition# 24136 NH3 – 10 ppmv, dry, corrected to 3% oxygen, over any 3 hour averaging period when SCR catalyst bed temperature ≥ 500F

II. Equipment

A-0303	Hydrogen Plant Train #2 Selective Catalytic Reduction (SCR)	S-4472	Condition #24136, Parts 8 – 16 Post- Modernization	CEMs for NOx, CO, and O2 District approved source tests for PM10, POC, SO2, ammonia slip	NOx: 5.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period when SCR catalyst bed temperature > 562F CO: 10.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period PM10: 0.0026 #/MMBTU(HHV) averaged over 3-hours POC: 0.00288 #/MMBTU(HHV) averaged over 3-hours SO2: Part 9c of Condition# 24136 NH3 – 10 ppmv, dry, corrected to 3% oxygen, over any 3 hour averaging period when SCR catalyst bed temperature > 500F
A-310	Water Scrubber in series with Caustic Scrubber of Packed Bed Design	S-4490	Condition #25814	Monitor scrubber liquor/reagent flow rate, pH of scrubber liquor/reagent and pressure drop	H2S < 12 ppm confirmed by annual source test
A-0607	Carbon Bed Feed Surge Tank Absorber Unit for S-0605 Tank (Alkane GWTU) (VOC Vapor Abatement D607 A/B), Activated Carbon/Charcoal Canisters	S-0605-S-0610	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC destruction-removal efficiency-95% by concentration-weight, or outlet < 500 ppmv organics, or minimum benzene destruction-removal efficiency-98% by concentration-weight, or 10 ppmv benzene
A-0611	Carbon Adsorber Unit, Activated Carbon Containers, D611 A/B	S-0610	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC destruction-removal efficiency-95% by concentration-weight, or outlet < 500 ppmv organics, or minimum benzene destruction-removal efficiency-98% by concentration-weight, or 10 ppmv benzene
A-0615	Carbon Canisters (2 in series)	S-0660-S-6066	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC removal destruction efficiency 95% by concentration weight, or outlet < 500 ppmv organics, or minimum benzene destruction-removal efficiency-98% by concentration-weight, or 10 ppmv benzene

II. Equipment

A-0620	Thermatrix, Model ES300, Thermal Oxidizer, LPG Racks	LPG Racks Pumps and compressor seals S- 3210332112	Condition #8869	Continuous temperature monitor Monitor and record temperature twice a day Continuous flow monitor for each pump duct	Minimum temperature of 1500 degrees F if A-0620 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless Minimum minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 .
A-0622	Thermatrix, Model ES60H, Thermal Oxidizer, Yard DIB	Yard DIB Pumps and compressor seals S- 3210332113	Condition #8869	Continuous temperature monitor, Monitor and record temperature twice a day Initial Source Test Continuous flow monitor for each pump duct	Minimum temperature of 1565 degrees F if A-0622 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 and Minimum VOC destruction efficiency 95% by weight
A-0623	Thermatrix, Model ES60H, Thermal Oxidizer, 21 Pump Station	No. 21 Pump Station Pumps and compressor seals S- 3210332114	Condition #8869	Continuous temperature monitor Monitor and record temperature twice a day Continuous flow monitor for each pump duct	Minimum temperature of 1565 degrees F if A-0623 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 Minimum VOC destruction efficiency 95% by weight

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A-0624	Thermatrix, Model ES60H, Thermal Oxidizer, 17 Pump Station	No. 17 Pump Station Pumps and compressor seals S-3240332111	Condition #8869	Continuous temperature monitor Monitor and record temperature twice a day Continuous flow monitor for each pump duct	Minimum temperature of 1565 degrees F if A-0624 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 Minimum VOC destruction efficiency 95% by weight
A-0627	Thermatrix, Model ES300, Thermal Oxidizer, FCC Unit (backup)	FCC Unit Pumps and compressor seals S-3240332115	Condition #8869	Continuous temperature monitor Monitor and record temperature twice a day Continuous flow monitor for each pump duct	Minimum temperature of 1500 degrees F if A-0627 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 Minimum VOC destruction efficiency 95% by weight
A-0628	Thermatrix, Model ES300, Thermal Oxidizer, Alkylation Plant	Alkylation Plant Pumps and compressor seals S-3240332116	Condition #8869	Continuous temperature monitor Monitor and record temperature twice a day Continuous flow monitor for each pump duct	Minimum temperature of 1500 degrees F if A-0628 is used to exempt an applicable source from Reg. 8-18 requirements per Reg. 8-18-110, Not exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 at all times unless minimum VOC destruction efficiency 95% by weight is demonstrated as outlined in part 5 of Condition # 8869 Minimum VOC destruction efficiency 95% by weight

II. Equipment

<p>A-0629</p>	<p>Carbon System – Backup Abatement – No. 17 Pump Station Backup abatement device to A-624 Temporary Carbon System Vent-Scrub Vapor Phase Adsorbers, Model: VSC-200, consisting of 2 sets of 3 activated carbon drums in series; with each drum containing at least 200 lbs of activated carbon; with only one set/train operating at any given time.</p>	<p>No. 17 Pump Station – Pumps and compressor seals S-32111</p>	<p>Condition 25703</p>	<p>FID and flow rate monitoring at least once daily for TOC and flow rate at the inlet and outlet of each one of the 3 carbon drums configured in series and flow monitoring.</p>	<p>Minimum TOC destruction efficiency 95% by weight, or outlet < 10 ppmv (as C1) > 95% by wt. to be confirmed per daily TOC monitoring required by part 3 of Condition # 25835 Flow rate < 4 CFM</p>
<p>A-0632</p>	<p>Carbon System – Backup Abatement – No. 21 Pump Station Backup abatement device to A-623 Temporary Carbon System Vent-Scrub Vapor Phase Adsorbers, Model: VSC-200, consisting of 2 sets of 3 activated carbon drums in series; with each drum containing at least 200 lbs of activated carbon; with only one set/train operating at any given time.</p>	<p>No. 21 Pump Station – Pumps and compressor seals S-32114</p>	<p>Condition 25835</p>	<p>FID and flow rate monitoring at at least once daily for TOC and flow rate at the inlet and outlet of each one of the 3 carbon drums configured in series and flow monitoring.</p>	<p>Minimum TOC destruction efficiency 95% by weight, or outlet < 10 ppmv (as C1) ≥ 95% by wt. to be confirmed per daily TOC monitoring required by part 3 of Condition # 25835 Flow rate < 4 CFM</p>
<p>A-0630</p>	<p>DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal</p>	<p>S-6250</p>	<p>Condition #12842, 40 CFR 61-Subpart FF</p>		<p>Outlet stream VOC concentration of A-630 <10% of inlet stream organics concentration, 95% reduction of organics, or <500 ppmv at outlet, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene [applies to A630/A631]</p>
<p>A-0631</p>	<p>DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal</p>	<p>S-6250</p>	<p>Condition #12842, 40 CFR 61-Subpart FF</p>		<p>Outlet stream VOC concentration of A-631 <10 ppmv methane, 95% reduction of organics, or <500 ppmv at outlet, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene [applies to A630/A631]</p>
<p>A-0900</p>	<p>Emission Reduction Device (Thermal Oxidizer) – Marine Vapor Recovery</p>	<p>S-9321 S-9322 S-9323 S-9324 S-9325</p>	<p>Condition #4714, 8-44</p>	<p>Continuous temperature monitor</p>	<p>Incinerator exhaust temperature > 1200 degrees F, Minimum VOC destruction efficiency 95% by weight POC reduced by 95% or greater, or POC emissions < 2lb/1000 bbl loaded</p>
<p>A-919</p>	<p>#21 pump station carbon</p>				

II. Equipment

A-3146	Vent Gas scrubber for S-3146 (Tank 3146 – Ammonia Tank), Adsorption, Activated Carbon/Charcoal	S-3146			
A-3200	Abatement 4 Crude Unit Furnace 1100B – DEBRU (See S-4071 – F1100B 4Crude Furnace). [Note: the abatement device is the firebox of the process heater (F-1100B)]	S-3110, S-3111, S-3192 [A-3200 does not abate S-3200]	Condition #4650	Continuous temperature monitor	Minimum temperature of 1000 degrees F, At least 98.5% by weight VOC abatement, POC emissions <1 lb/day, benzene emissions < 0.04 lb/day
			8-18-110		95% control efficiency or greater
			40 CFR 61 Subpart FF	Continuous temperature monitor	Reduce organics by 95 wt % OR <20 ppmv organics dry basis, 3% O2 or >0.5sec residence time at >1400F
A-3235	Catalyzed Diesel Particulate Filter Deutz	S-3235	Condition #22850		
A-4241	Mist Eliminator Scrubber, Fibrous Packed Scrubber – Asphalt Loading Racks (S-4241)	S-4240, S-4241	Regulation 6-1-301		20% maximum opacity
A-4413	Thermatrix, Model ES-5, Thermal Oxidizer, Electrically powered	S-4413 #2a API Oil Water Separator	Condition #26721	Continuous temperature monitor	Minimum temperature of 1600 degrees F, Applicable Fugitive components are not exempt from Regulation 8-18 and 8-28.
A-4422	Sandblaster Dust Collector, Shaking Baghouse for Abrasive Blasting at I&E Shop		Condition #5599		
A-4450	Acid Gas Scrubber (C-2440)	S-4433, S-4434, S-4435, S-4454, S-4429, S-4345	Condition #24136 Part 82 Post-Modernization	Backup scrubber to tail gas units A-20, A-21, and A-22 to prevent release of acid gases during an unscheduled loss of SRU capacity	
A-4451	Acid Gas Scrubber (C-840)	S-4433, S-4434, S-4435, S-4454, S-4429, S-4345	Condition #24136 Part 82 Post-Modernization	Backup scrubber to tail gas units A-20, A-21, and A-22 to prevent release of acid gases during an unscheduled loss of SRU capacity	
A-4429	Temporary odor control scrubber	S-4429	Condition #20330	15 – 5% aqua-ammonia solution	Aqua-ammonia solution maintained between 15 – 5%
A-6010	High Level Flare, LSFO Refinery Waste Gas Flare, (Same as S-6010/A6010)	S-4233 S-4234 S-4235 S-4236 S-4237	8-1-110.3		At least 90% destruction of organics

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 201920, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> <p><u>Log₁₀(V_{max}) = (NHV_{vg}+1,212) ÷ 850</u></p>
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 201920, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{vg}) > 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6012	Refinery Waste Gas Flare, V-282, South Isomax Flare -; Same as S-6012	S-4250 S-4251 S-4348 S-4434 S-4429	8-1-110.3		At least 90% destruction of organics,

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 201920, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> $\text{Log}_{10}(V_{\text{max}}) = (\text{NHV}_{\text{cg}} + 1.212) \div 850$
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 201920, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{cg}) > 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6013	North Isomax Flare V-281, Refinery Waste Gas Flare., (Same as S-6013/A6013)	S-4252 S-4253	8-1-110.3		At least 90% destruction of organics

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 202019, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> $\text{Log}_{10}(V_{\text{max}}) = (\text{NHV}_{\text{vg}} + 1.212) \div 850$
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 202019, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{vg}) ≥ 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6015	Refinery Waste Gas Flare D&R, 3MMBtu/h	S-4233, S-4234, S-4235, S-4237, S-4282, S-4283 S-4435	8-1-110.3		At least 90% destruction of organics

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 202019, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> $\text{Log}_{10}(V_{\text{max}}) = (\text{NHV}_{\text{vg}} + 1.212) \div 850$
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 202019, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{vg}) > 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6016	FCC Flare V-731, Refinery Waste Gas Flare: , Same as S-6016	S-4285	8-1-110.3		At least 90% destruction of organics

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 202019, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> $\text{Log}_{10}(V_{\text{max}}) = (\text{NHV}_{\text{vg}} + 1.212) \div 850$
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 202019, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{vg}) > 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6017	Alkane Flare, Refinery Waste Gas Flare, same as S-6017	S-4286 S-4289 S-4290 S-4294	8-1-110.3		At least 90% destruction of organics

II. Equipment

			8-18-110		95% control efficiency or greater
A-6018	Flare Relief Drum—V780 Poly Flare, FCC (Needs equivalent Source Number)	S-4291 S-4292	8-1-110.3		At least 90% destruction of organics
A-6019	Alky-Poly Flare, Refinery Waste Gas Flare, V-732A: ; Same as S-6019	S-4291 S-4292 S-4277 S-4228 S-4229 S-4286 S-4355	8-1-110.3		At least 90% destruction of organics
			40 CFR 60.103a(h) $H_2S_{fuel\ gas}$		<p>$H_2S_{fuel\ gas} \leq 162$ ppmv determined hourly on a 3-hour rolling average basis.</p> <p>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</p> <p>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</p>
			40 CFR 63.670(d) Flare Tip Velocity		<p>Flare Tip Velocity:</p> <p>On/before January 30, 2020, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</p> <p>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second, OR</p> <p>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</p> $\log_{10}(V_{max}) = (NHV_{vg} + 1,212) \div 850$

II. Equipment

			40 CFR 63.670(e) Combustion zone operating limits		Combustion zone operating limits: On/before January 30, 2020 , flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV _{cz}) ≥ 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.
A-6020	K3950, Flare Gas Recovery Compressor System, Cooper/Penn. Unclassified Abatement Device	S-4233, S-4234, S-4235, S-4237, S-4282, S-4283 S-4435	8-18-110		95% control efficiency or greater
A-6021	Hydrogen Plant Flare – Same as S-6021	S-4449 S-4450 S-4451			Maximum 1.60 MMBTU (HHV)/hour pilot purge
			8-1-110.3		At least 90% destruction of organics
			40 CFR 60.103a(h) H₂S_{fuel gas}		H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis. Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit. Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.

II. Equipment

			40 CFR 63.670(d) Flare Tip Velocity		Flare Tip Velocity: On/before January 30, 2019, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare Actual flare tip velocity (V_{tip}) must be less than 60 feet/second, OR V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation: $\text{Log}_{10}(V_{max}) = (\text{NHV}_{vg} + 1.212) \div 850$
			40 CFR 63.670(e) Combustion zone operating limits		Combustion zone operating limits: On/before January 30, 202019, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{cz}) \geq 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.
A-6039	V-3501; Lube RLOP Flare – Same as S-6039	S-4340 S-4341 S-4342 S-4343 S-4345 S-4346	8-1-110.3		At least 90% destruction of Organics

II. Equipment

			<p>40 CFR 60.103a(h)</p> <p><u>H₂S_{fuel gas}</u></p>		<p><u>H₂S_{fuel gas} ≤ 162 ppmv determined hourly on a 3-hour rolling average basis.</u></p> <p><u>Process upset gases or gases released to the flare as a result of relief valve leakage or other emergency malfunctions are exempt from the limit.</u></p> <p><u>Process upset gas means any gas generated by a petroleum refinery process unit or by ancillary equipment as a result of startup, shutdown, upset or malfunction.</u></p>
			<p>40 CFR 63.670(d)</p> <p><u>Flare Tip Velocity</u></p>		<p><u>Flare Tip Velocity:</u></p> <p><u>On/before January 30, 202019, when regulated material is routed to flare for at least 15-minutes and flare vent gas flow rates is less than smokeless capacity of flare</u></p> <p><u>Actual flare tip velocity (V_{tip}) must be less than 60 feet/second. OR</u></p> <p><u>V_{tip} must be less than 400 feet/second and must also be less than maximum allowed flare tip velocity (V_{max}) using the following equation:</u></p> $\text{Log}_{10}(V_{\text{max}}) = (\text{NHV}_{\text{vg}} + 1.212) \div 850$
			<p>40 CFR 63.670(e)</p> <p><u>Combustion zone operating limits</u></p>		<p><u>Combustion zone operating limits:</u></p> <p><u>On/before January 30, 202019, flare shall be operated in a manner to maintain the net heating value of flare combustion zone gas (NHV_{vg}) > 270 Btu/scf determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes.</u></p>
A-6046	Sandblaster Dust Collector, Simple Baghouse	S-6046			

II. Equipment

A-6200	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6200	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6201	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6201	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6202	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6202	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6203	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6203	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6204	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6204	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6205	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6205	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6206	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6206	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6207	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6207	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6208	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6208	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6209	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6209	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6210	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6210	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6211	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6211	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6212	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6212	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6213	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6213	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6214	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6214	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6215	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6215	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6216	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6216	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6217	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6217	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6218	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6218	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6219	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6219	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6220	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6220	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6221	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6221	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6222	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6222	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6223	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6223	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6224	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6224	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6225	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6225	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6226	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6226	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6227	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6227	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6228	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6228	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6229	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6229	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6230	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6230	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6231	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6231	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6232	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6232	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6233	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6233	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6234	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6234	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6235	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6235	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6236	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6236	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6237	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6237	Condition #10761		<p>Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

II. Equipment

A-6238	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6238	Condition #10761		Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration. The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.
A-6239	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6239	Condition #10761		Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration. The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.
A-7513	Diesel particulate filter, Johnson Matthey CRT	S-7513	17 CCR 93115		85% control efficiency or greater
A-7514	Diesel particulate filter, Johnson Matthey CRT	S-7514	17 CCR 93115		85% control efficiency or greater
A-7517	Diesel Particulate Filter, Johnson Matthey CRT	S-7517	17 CCR 93115		85% control efficiency or greater
A-7521	Diesel Particulate Filter, Johnson Matthey CRT	S-7521	17 CCR 93115		85% control efficiency or greater
A-7523	Diesel particulate filter, Johnson Matthey CRT	S-7523	17 CCR 93115		85% control efficiency or greater
A-7537	Diesel particulate filter	S-7537	P/C 24022		S-7537 required to be abated by A-7537 at all times of operation

II. Equipment

A-7539	Diesel Particulate Filter, Johnson Matthey CRT	S-7539	17 CCR 93115		85% control efficiency or greater
A-32105	Two 200 # carbon drums in series abating S-4148	S-4148	Condition 24085		10 ppmv as C4 at outlet of last bed and Control efficiency of 90% by wt. Or 298 ppmv outlet hydrocarbon concentration atnext to last bed

II. Equipment

Table II C – Exempt Equipment List

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
-94	C8250189	Stack Burner	NA	NA		exempt
-73	G7043471	Selective Catalytic Reduction System	NA	NA		exempt
-72	G7043471	Selective Catalytic Reduction System	NA	NA		exempt
55	T81??315	Tank 55	NA	NA		exempt Reg. 2-1-123.10 Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25)
200	T441?201	TANK 200A	NA	NA		exempt Reg 2-1-123.2
204	T441?315	TANK 204	NA	NA		exempt Reg 2-1-123.3
223	T441?502	TANK 223	NA	NA		exempt Reg 2-1-123.2
225	T441?502	TANK 225	NA	NA		exempt Reg 2-1-123.2
234	T441?315	TANK 234	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.10 API
290	T441?315	TANK 290	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
291	T441?315	TANK 291	NA	NA		exempt 2-1-123.3.3 DO
293	T441?318	TANK 293	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.10 API
319	T441?315	TANK 319	NA	NA		exempt 2-1-123.3.3 DO
397	T441?318	TANK 397	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
398	T54??2318	TANK 398	NA	NA		exempt 2-1-123.3.3 Lube
400	T5432318	TANK 400	NA	NA		Dismantled
401	T44??239	TANK 401	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
501	T441??239	TANK 501	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.10 API
583	T441?318	TANK 583	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
596	T441?432	TANK 596	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
610	T81??318	Tank 610: Organic Liquid Storage Tank	NA	NA		No limit. Limited by source no. 6061
660	T81??502	Tank 660: Organic Liquid Storage Tank	NA	NA		No limit. Limited by source no. 6061
750	T431?432	TANK 750	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
892	T42??502	Tank 892: Inorganic Chemical Storage	NA	NA		exempt 2-1-123.2 AqSol
893	T42??502	Tank 893: Water Storage Tank (No Organics)	NA	NA		exempt 2-1-123.2 AqSol
900	G5036502	Organic/Water Mixture Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
901	T42??416	Tank 901: Organic Liquid Storage Tank	NA	NA		Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
902	T42??419	Tank 902: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
955	T5412052	TANK 955	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
956	T5412052	TANK 956	NA	NA		exempt 2-1-123.3.2 IBP
957	T44??158	Tank 957				
979	T44??315	TANK 979	NA	NA		exempt 2-1-123.3.3 DO
984	T441?315	TANK 984	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1020	T44??485	Tank 1020: Inorganic Chemical Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
1052	T43??318	Tank 1052: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Flash
1149	T441?239	TANK 1149	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
1292	T5412158	TANK 1292	NA	NA	BBL	exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
1297	T63?2502	Tank 1297: Organic Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
1428	T5412239	TANK 1428	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 flash point exempt 2-1-123.3.10 API
1451	T5412239	TANK 1451	NA	NA		Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1455	T441?318	TANK 1455 Storing Fresh Caustic	NA	NA		exempt 2-1-123.3.3 DO
1456	T441?318	TANK 1456	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1468	T441?419	TANK 1468	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
1470	T441?432	TANK 1470	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
1491	T5432179	TANK 1491				
1492	T441?315	TANK 1492	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1493	T441?315	TANK 1493	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
						point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1506	T54??2315	TANK 1506	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 flash point exempt 2-1-123.3.10 API
1507	T44??2392	Tank 910	NA	NA	-	exempt 2-1-123.3.10 API
1546	T441?158	TANK 1546	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
1622	T34??160	LPG Tank, # 1622	NA	NA		exempt 2-1-123.3.1 LPG
1623	T34??052	TANK 1623 (Spherical Pressure Tank)	NA	NA		exempt 2-1-123.3.1 LPG
1634	T6412158	TANK 1634 (JET A)	NA	NA		Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Jet
1636	T441?315	TANK 1636	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1679	T43??318	TANK 1679	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
1685	T441?315	TANK 1685	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
1723	T4417432	TANK 1723	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
1724	T4417432	TANK 1724	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
1725	T4417432	TANK 1725	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
1821	G5999146	Tank 1821 Fresh Sulfuric Acid Tank	NA	NA		exempt 2-1-122 2.1 H2SO4
1825	T4277201	Tank 1825	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
1828	T3447052	TANK 1828	NA	NA		exempt 2-1-123.3.1 LPG
1894	G5999217	Tank 1894: Phosphoric Acid Storage Tank	NA	NA		exempt 2-1-122 2.2 H3PO4
1899	T5412315	TANK 1899	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
1910	T4377201	Tank 1910	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
1989	T4417419	TANK 1989	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
2420		Lean Amine Storage Tank Max. capacity: 130,000 gallons Reviewed under: A# 12842	NA	NA		exempt 2-1-123.3.2, 2-1-123.3.3, or 2-1-123.3.10
2421		Fresh Amine Storage Tank Max. capacity: 70,000 gallons Reviewed under: A# 12842	NA	NA		exempt 2-1-123.3.2, 2-1-123.3.3, or 2-1-123.3.10
2426		Fresh Caustic Storage Tank Max. capacity: 200,000 gallons Reviewed under: A# 12842	NA	NA		exempt 2-1-123.2, 2-1-123.3.3, or 2-1-123.3.10
2445		Spent Caustic Storage Tank Max. capacity: 400,000 gallons Reviewed under: A# 12842	NA	NA		exempt 2-1-123.2, 2-1-123.3.3, or 2-1-123.3.10
2520	T44??106	Wastewater/MEA Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
2540	T44??664	Tank 2540: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
2903	T42??416	Tank 903: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3038	T34??052	TANK 3038 (Spherical Pressure Tank)	NA	NA		exempt 2-1-123.3.1 LPG
3050	T344?417	TANK 3050 SPHERE	NA	NA		exempt 2-1-123.3.1 LPG
3066	T344?052	TANK 3066	NA	NA		exempt 2-1-123.3.1 LPG
3067	T431?318	TANK 3067	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 WAX
3074	T54?2315	TANK 3074	NA	NA	BBL	exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25)

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
						2-1-123.3.3 DO
3132	T54?2315	Tank 3132	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
3133	T5412158	TANK 3133	15,000,000	NA	BBL	Conditioned annual throughput, P/C # 15038
3134	T5412315	TANK 3134	10,000,000	NA	BBL	Conditioned annual throughput, P/C # 13859
3138	T5412394	TANK 3138	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
3139	T5422394	TANK 3139	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
3142	T441?239	TANK 3142	NA	NA		exempt 2-1-123.2 AqSol
3145	T3H3?052	TANK 3145, Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3146	T44??201	Tank 3146: 20% Aqueous Ammonia	NA	NA		exempt 2-1-123.2 AqSol
3147	T64?2485	Tank 3147: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
3148	T43??485	Tank 3148: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
3157	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3158	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
3159	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3160	T44??419	Tank 3160: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3161	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3162	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3163	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3164	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3165	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3166	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3167	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
						point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3168	T44??419	Tank Lube Oil	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3169	T44??419	organic liquid storage tank, lube oil products	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3170	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3171	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3172	T44??419	Lube Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3179	T44??315	Tank 3179: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
3182	T64??2419	Tank 3182: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.10 API
3186	T44??201	Gas Oil Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
3194	T54??2394	Storage Tank T-3194	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.10 API exempt 2-1-123.3.3 Flash Point
3195	T54??2315	T-3195 Waxy Heavy Neutral Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 DO
3204	T42??419	Tank 3204: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3206		Sphere	NA	NA		Exempt per Reg. 2-1-123.3.1
3207	T34??416	Butane Sphere: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.1 NG
3208	T34??417	Propane Sphere: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.1 NG
3211	T34??416	Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3212	T34??417	Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3215	T54??2315	Tank 3215: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
3216	T44??315	Tank 3216: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
3217		Tank 3227: Diesel Storage Tank	NA	NA		exempt 2-1-123.3.2, 2-1-123.3.3, or 2-1-123.3.10
3223		Sphere	NA	NA		Exempt per Reg. 2-1-123.3.1

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
3224		Sphere	NA	NA		Exempt per Reg. 2-1-123.3.1
3227		Tank 3227: Diesel Storage Tank	NA	NA		exempt 2-1-123.3.2, 2-1-123.3.3, or 2-1-123.3.10
3310	T43??419	Tank 3310: Organic Liquid Storage Tank	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3 Lube
3910	T34??160	LPG Tank; # 3910	NA	NA		exempt 2-1-123.3.1 LPG
3911	T34??160	LPG Tank, # 3911	NA	NA		exempt 2-1-123.3.1 LPG
4230	G7013419	LUBE OIL FILLING AT PACKAGE & GREASE PLANT	NA	NA		exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.3
4239	T9812315	MAIN TANK CAR LOADING RACKS #4239	NA	NA	MBBL	Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) 2-1-123.3.2 IBP
4240	T9811030	ASPHALT TANK TRUCK LOADING RACK	NA	NA	NA	Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) ex 2-1-123.3.2 IBP
4241	T9711030	ASPHALT TANK CAR LOADING RACKS 4241	NA	NA	NA	Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash point > 130F), or 123.3.10 (API < 25) ex 2-1-123.3.2 IBP
4315	TB8?2041	POINT ORIENT WHARF	NA	NA	NA	Abandoned. Out of service
4349		Furnace F-1650	NA	235.2	million Btu HHV	Exempt 2-1-114.1.2
4391	G5033300	NO. 1 OXIDATION POND	NA	NA	MMGPD	Exempt 2-1-123.2
4392	G5033300	Wetland Marsh	NA	NA	MMGPD	Exempt 2-1-123.2
4400	G5995239	Wax Melt Vessel	NA	NA	BBL	Exempt Reg. 2-1-123.3.2 (IBP > 302F), 123.3.3 (flash

II. Equipment

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
						point > 130F), or 123.3.10 (API < 25) exempt 2-2-123.3.3 WAX
4403	TE8?1052	Unrefined Wax Truck Loading Rack	NA	NA		exempt
4404	TE8?1052	Saturated Refined Wax Truck Loading Rack	NA	NA		exempt
4406		Pentamer and Tetramer Truck Loading Rack	NA	NA		Exempt 2-1-123.3.2
4422	G4073473	Abrasive Blasting Operating at I&E Shop	NA	NA	NA	Exempt per Reg. 2-1-118.1
4423	G7131540	Pilot Remediation Process	NA	NA		exempt
4425	G7999146	H2 SO4 Sump	NA	NA		exempt
5101	T44??419	Tank-Marketing T-101	NA	NA		exempt 2-1-123.3.3 Lube
5103	T44??419	Tank-Marketing T-103	NA	NA		exempt 2-1-123.3.3 Lube
5105	T44??419	Tank-Marketing T-105	NA	NA		exempt 2-1-123.3.3 Lube
5107	T44??419	Tank-Marketing T-107	NA	NA		exempt 2-1-123.3.3 Lube
5108	T44??419	Tank-Marketing T-108	NA	NA		exempt 2-1-123.3.3 Lube
5109	T44??419	Tank-Marketing T-109	NA	NA		exempt 2-1-123.3.3 Lube
5110	T44??419	Tank-Marketing T-110	NA	NA		exempt 2-1-123.3.3 Lube
5112	T43??419	Tank-Marketing T-112	NA	NA		exempt 2-1-123.3.3 Lube
5113	T43??419	Tank-Marketing T-113	NA	NA		exempt 2-1-123.3.3 Lube
5115	T43??419	Tank-Marketing T-115	NA	NA		exempt 2-1-123.3.3 Lube
5117	T44??419	Tank-Marketing T-117	NA	NA		exempt 2-1-123.3.3 Lube
5118	T44??419	Tank-Marketing T-118	NA	NA		exempt 2-1-123.3.3 Lube
5119	T44??419	Tank-Marketing T-119	NA	NA		exempt 2-1-123.3.3 Lube
5121	T44??419	Tank-Marketing T-121	NA	NA		exempt 2-1-123.3.3 Lube

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5122	T44??419	Tank-Marketing T-122	NA	NA		exempt 2-1-123.3.3 Lube
5123	T44??419	Tank-Marketing T-123	NA	NA		exempt 2-1-123.3.3 Lube
5125	T43??419	Tank-Marketing T-125	NA	NA		exempt 2-1-123.3.3 Lube
5126	T43??419	Tank-Marketing T-126	NA	NA		exempt 2-1-123.3.3 Lube
5127	T43??419	Tank-Marketing T-127	NA	NA		exempt 2-1-123.3.3 Lube
5128	T43??419	Tank-Marketing T-128	NA	NA		exempt 2-1-123.3.3 Lube
5129	T43??419	Tank-Marketing T-129	NA	NA		exempt 2-1-123.3.3 Lube
5130	T43??419	Tank-Marketing T-130	NA	NA		exempt 2-1-123.3.3 Lube
5131	T43??419	Tank-Marketing T-131	NA	NA		exempt 2-1-123.3.3 Lube
5132	T43??419	Tank-Marketing T-132	NA	NA		exempt 2-1-123.3.3 Lube
5133	T43??419	Tank-Marketing T-133	NA	NA		exempt 2-1-123.3.3 Lube
5134	T43??419	Tank-Marketing T-134	NA	NA		exempt 2-1-123.3.3 Lube
5135	T43??419	Tank-Marketing T-135	NA	NA		exempt 2-1-123.3.3 Lube
5136	T43??419	Tank-Marketing T-136	NA	NA		exempt 2-1-123.3.3 Lube
5137	T43??419	Tank-Marketing T-137	NA	NA		exempt 2-1-123.3.3 Lube
5138	T43??419	Tank-Marketing T-138	NA	NA		exempt 2-1-123.3.3 Lube
5139	T43??419	Tank-Marketing T-139	NA	NA		exempt 2-1-123.3.3 Lube
5140	T43??419	Tank-Marketing T-140	NA	NA		exempt 2-1-123.3.3 Lube
5201	T44??419	Tank-Marketing T-201	NA	NA		exempt 2-1-123.3.3 Lube
5202	T44??419	Tank-Marketing T-202	NA	NA		exempt 2-1-123.3.3 Lube

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5203	T44??419	Tank-Marketing T-203	NA	NA		exempt 2-1-123.3.3 Lube
5204	T44??419	Tank-Marketing T-204	NA	NA		exempt 2-1-123.3.3 Lube
5205	T44??419	Tank-Marketing T-205	NA	NA		exempt 2-1-123.3.3 Lube
5206	T44??419	Tank-Marketing T-5206	NA	NA		exempt 2-1-123.3.3 Lube
5207	T44??419	Tank-Marketing T-207	NA	NA		exempt 2-1-123.3.3 Lube
5208	T44??419	Tank-Marketing T-208	NA	NA		exempt 2-1-123.3.3 Lube
5209	T44??419	Tank-Marketing T-209	NA	NA		exempt 2-1-123.3.3 Lube
5210	T44??419	Tank-Marketing T-210	NA	NA		exempt 2-1-123.3.3 Lube
5211	T44??419	Tank-Marketing T-211	NA	NA		exempt 2-1-123.3.3 Lube
5212	T44??419	Tank-Marketing T-212	NA	NA		exempt 2-1-123.3.3 Lube
5213	T44??419	Tank-Marketing T-213	NA	NA		exempt 2-1-123.3.3 Lube
5214	T44??419	Tank-Marketing T-214	NA	NA		exempt 2-1-123.3.3 Lube
5215	T44??419	Tank-Marketing T-215	NA	NA		exempt 2-1-123.3.3 Lube
5216	T43??419	Tank-Marketing T-216	NA	NA		exempt 2-1-123.3.3 Lube
5217	T43??419	Tank-Marketing T-217	NA	NA		exempt 2-1-123.3.3 Lube
5218	T43??419	Tank-Marketing T-218	NA	NA		exempt 2-1-123.3.3 Lube
5219	T43??419	Tank-Marketing T-219	NA	NA		exempt 2-1-123.3.3 Lube
5220	T43??419	Tank-Marketing T-220	NA	NA		exempt 2-1-123.3.3 Lube
5221	T43??419	Tank-Marketing T-221	NA	NA		exempt 2-1-123.3.3 Lube
5222	T43??419	Tank-Marketing T-222	NA	NA		exempt 2-1-123.3.3 Lube

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5223	T43??419	Tank-Marketing T-223	NA	NA		exempt 2-1-123.3.3 Lube
5224	T43??419	Tank-Marketing T-224	NA	NA		exempt 2-1-123.3.3 Lube
5227	T43??419	Tank-Marketing T-227	NA	NA		exempt 2-1-123.3.3 Lube
5228	T43??419	Tank-Marketing T-228	NA	NA		exempt 2-1-123.3.3 Lube
5229	T44??419	Tank-Marketing T-229	NA	NA		exempt 2-1-123.3.3 Lube
5230	T43??419	Tank-Marketing T-230	NA	NA		exempt 2-1-123.3.3 Lube
5232	T43??419	Tank-Marketing T-232	NA	NA		exempt 2-1-123.3.3 Lube
5233	T43??419	Tank-Marketing T-233	NA	NA		exempt 2-1-123.3.3 Lube
5234	T43??419	Tank-Marketing T-234	NA	NA		exempt 2-1-123.3.3 Lube
5237	T43??419	Tank-Marketing T-237	NA	NA		exempt 2-1-123.3.3 Lube
5240	T43??419	Tank-Marketing T-240	NA	NA		exempt 2-1-123.3.3 Lube
5241	T43??419	Tank-Marketing T-241	NA	NA		exempt 2-1-123.3.3 Lube
5301	T43??419	Tank-Marketing T-301	NA	NA		exempt 2-1-123.3.3 Lube
5302	T43??419	Tank-Marketing T-302	NA	NA		exempt 2-1-123.3.3 Lube
5303	T43??419	Tank-Marketing T-303	NA	NA		exempt 2-1-123.3.3 Lube
5304	T43??419	Tank-Marketing T-304	NA	NA		exempt 2-1-123.3.3 Lube
5305	T43??419	Tank-Marketing T-305	NA	NA		exempt 2-1-123.3.3 Lube
5306	T43??419	Tank-Marketing T-306	NA	NA		exempt 2-1-123.3.3 Lube
5307	T43??419	Tank-Marketing T-307	NA	NA		exempt 2-1-123.3.3 Lube
5308	T43??419	Tank-Marketing T-308	NA	NA		exempt 2-1-123.3.3 Lube

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5309	T43??419	Tank 5309: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
5315	T43??419	Tank 5315: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
5603	T43??419	Tank-Marketing T-603	NA	NA		exempt 2-1-123.3.3 Lube
6005	C8400189	THERMAL FLARE, F-1001	NA	NA		Dismantled.
6005	C8400708	THERMAL FLARE, F-1001				
	T81??021	217 gallon Transfer tote (standby) storing corrosion inhibitor with transfer line to S-6022				
6042	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6043	G7109474	Gritblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-121.1
6045	G7109473	Sandblaster at Boiler Shop	NA	NA		Exempt per Reg. 2-1-118.1
6046	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6047	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6065	G5995502	Bay Area Pipeline Groundwater Treatment Facility	NA	NA	MBBL	Dismantled.
7000	G7013022	Anhydrous Ammonia Loading/Unloading	NA	NA		exempt 2-1-123.3.1 NH3
7001	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
7002	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
7003	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
7502	IC Engine					Exempt per 2-1-114.2.1
7503	IC Engine					Exempt per 2-1-114.2.1
7504	IC Engine					Exempt per 2-1-114.2.1
7505	IC Engine					Exempt per 2-1-114.2.1

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
S-7547	IC Engine	High Hill Emergency Standby Generator Engine (<50 HP)				Exempt per 2-1-114.2.1
9047	T42??201	Tank 6047	NA	NA		exempt 2-1-123.1 <260 gals
9203	T43??090	Tank 3203: Organic Liquid Storage Tank (GST-46)	NA	NA		exempt 2-1-123.3.2 IBP
9205	T43??419	Tank 3205: Organic Liquid Storage Tank (Delo 100)	NA	NA		exempt 2-1-123.3.2 IBP
9300	SF01A318	Graymills Cold Cleaner or comparable make/model	NA	NA		exempt 2-1-118.7
9324	TB8??242	Marine Loading Berth #4	146,628 (sum of 9321 through 9326)	68	<i>M BBL</i>	See Appendix 11.6 and 15.1
32100	G9030000	Fugitive Sources – Vacuum Producing Systems	NA	NA		Exempt per PTO
32101	G9040000	Fugitive Sources – Process Vessel Depressurization	NA	NA		Exempt per PTO
32102	G9050000	Fugitive Sources – Valves and Flanges	NA	NA		Exempt per PTO
32103	G9060000	Fugitive Sources – Pumps & Compressor Seals	NA	NA		Exempt per PTO
32104	G9070000	Fugitive Sources – Pressure Relief Valves	NA	NA		Exempt per PTO
32105	G9080000	Fugitive Sources – Process Drains	NA	NA		Exempt per PTO
32110	G9010000	Process Gas (Combustion) Emissions from Flares and	NA	NA		Exempt per PTO
S-32111	G9060000	Fugitive Sources – No 17 Pump Station – Pumps & Compressor Seals	NA	NA		Exempt per PTO
S-32112	G9060000	Fugitive Sources – LPG Racks – Pumps & Compressor Seals	NA	NA		Exempt per PTO
S-32113	G9060000	Fugitive Sources – Yard DIB – Pumps & Compressor Seals	NA	NA		Exempt per PTO
S-32114	G9060000	Fugitive Sources – No. 21 Pump Station – Pumps & Compressor Seals	NA	NA		Exempt per PTO
S-32115	G9060000	Fugitive Sources – FCC Unit – Pumps & Compressor Seals	NA	NA		Exempt per PTO

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Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
S-32116	G9060000	Fugitive Sources – Alkylation Plant – Pumps & Compressor Seals	NA	NA		Exempt per PTO

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The date(s) of adoption of BAAQMD regulation(s) have been used. However, the most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date of EPA approval.

The full language of SIP requirements is on EPA Region 9's website. The address is <http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

NOTE:

Where there are differences between the current BAAQMD rules and the versions of the rules in the SIP, all sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III – Generally Applicable Requirements

Table III – Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)	N
1-301	Public Nuisance (5/2/90)	N
1-400	Administrative Requirements (10/21/92)	Y
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements ((11/19/0812/6/17)	N
2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
SIP Regulation 2, Rule 1	Permits, General Requirements (08/01/2016)	Y
BAAQMD Regulation 2, Rule 2	Permits, New Source Review (5/17/0012/6/17)	N
SIP Regulation 2, Rule 2	Permits, New Source Review (08/01/2016)	Y
SIP BAAQMD Regulation 2, Rule 3	Permits, Power Plants (3/19/82)	Y
BAAQMD Regulation 2, Rule 4	Permits, Emissions Banking (05/17/0012/06/17)	Y

III. Generally Applicable Requirements

Table III – Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 2, Rule 4	Permits, Emissions Banking (12/04/17)	<u>Y</u>
BAAQMD Regulation 2, Rule 5	Permits, New Source Review of Toxic Air Contaminants (6/15/05 12/7/16)	N
BAAQMD Regulation 2, Rule 6	Major Facility Review (05/02/01 12/6/17)	Y <u>N</u>
SIP Regulation 2, Rule 6	Major Facility Review (6/23/95)	<u>Y</u>
BAAQMD Regulation 2, Rule 9	Permits, Interchangeable Emissions Reduction Credits (04/07/99 6/15/05)	N
BAAQMD Regulation 3	Fees (6/5/02 6/18)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02 6/19/13)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07 8/1/18)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
6-301	Ringelmann No. 1 Limitation	Y
6-303	Ringelmann No. 2 Limitation	Y
6-305	Visible Particles	Y
6-310	Particulate Weight Limitation	Y
6-311	General Operations	Y
6-401	Appearance of Emissions	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds, General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
SIP BAAQMD Regulation 8, Rule 3	Organic Compounds, Architectural Coatings (11/21/01 10/02/04)	Y
BAAQMD Regulation 8, Rule 4	General Solvent and Surface Coating Operations (10/16/02 08/26/03)	Y
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)	N
SIP BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (11/27/02 06/05/03)	Y
BAAQMD Regulation 8, Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/83 10/3/84)	Y
BAAQMD Regulation 8, Rule 10	Organic Compounds, Process Vessel Depressurization (7/20/83 1/21/04)	Y
SIP Regulation 8, Rule 10	Organic Compounds, Process Vessel Depressurization (10/3/84)	<u>Y</u>
8-10-401	Turnaround Records	Y

III. Generally Applicable Requirements

Table III – Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/943/22/95)	Y
BAAQMD Regulation 8, Rule 18	Organic Compounds, Equipment Leaks (1/7/9812/16/15)	Y N
SIP Regulation 8, Rule 18	Organic Compounds, Equipment Leaks (6/5/03)	<u>Y</u>
BAAQMD Regulation 8, Rule 28	Organic Compounds, Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/9812/21/05)	N
SIP BAAQMD Regulation 8, Rule 28	Organic Compounds, Pressure Relief Valves at Petroleum Refineries and Chemical Plants (12/9/9405/24/04)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	<u>N</u>
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	<u>Y</u>
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	<u>N</u>
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	<u>Y</u>
BAAQMD Regulation 8, Rule 49	Organic Compounds, Aerosol Paint Products (12/20/95)	N
SIP BAAQMD Regulation 8, Rule 49	Organic Compounds, Aerosol Paint Products (3/22/95)	Y
SIP BAAQMD Regulation 8, Rule 51	Organic Compounds, Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds, Adhesive and Sealant Products (7/17/02)	N
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 10	NSPS Incorporation by Reference, General Provisions (2/16/00)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants, Asbestos Demolition/Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 10	Hexavalent Chromium from All Cooling Towers and Total Hydrocarbon Emissions from Petroleum Refinery Cooling Towers (12/16/151/28/1912/19/18)	<u>N</u>
BAAQMD Regulation 11, Rule 12	NESHAP Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (1/5/947/18/90)	N
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facility (11/15/2017)	<u>N</u>
SIP BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance Sandblasting (9/2/81)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance Sandblasting (7/11/90)	N
12-4-303	Performance Standards for Abrasive Blasting For Traffic Markers	Y

III. Generally Applicable Requirements

Table III – Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
12-4-304	Performance Standards for Other Abrasive Blasting (7/11/90)	N
12-4-305	Performance Standards for Abrasives	Y
12-4-306	Certification of Abrasives	Y
12-4-308	Facility Blasting Operations (7/11/90)	N
SIP Regulation 12, Rule 4	Provisions No Longer in Current Rule Miscellaneous Standards of Performance Sandblasting (9/2/81)	Y
12-4-301	Ringelmann No. 1 Limitation	Y
12-4-304	Performance Standards for Other Abrasive Blasting	Y
BAAQMD Regulation 12, Rule 15	Petroleum Refining Emissions Tracking (4/20/2016)	N
BAAQMD Regulation 14, Rule 1	Mobile Source Emission Reduction Methods – Bay Area Commuter Benefits Program (3/19/14)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
CAC Title 17	State Provisions for Sandblasting	N
California Health and Safety Code Title 17, Section 93115 California Code of Regulations Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11) Airborne Toxic Control Measure for Stationary Compression Ignition Engines (11/8/04)	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/49/957/20/04)	Y
40 CFR 63 Subpart CC 63.658 and 63.655	Fenceline Monitoring and Reporting/Recordkeeping Requirements (12/1/15)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (1/31/94)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/9512/28/07)	
40 CFR 82 Subpart F 82.156	Recycling and Emissions Reductions – Required Practices (8/8/9504/13/05)	Y
40 CFR 82 Subpart F 82.161	Recycling and Emissions Reductions – Technician Certification (11/9/944/13/05)	Y
40 CFR 82 Subpart F 82.166	Recycling and Emissions Reductions – Reporting and Record Keeping Provisions (8/8/954/13/05)	Y
40 CFR Part 82, Subpart H	Protection of Stratospheric Ozone: Halon Emissions Reduction (03/05/98)	Y
Title 40 CFR Part 82 Subpart H 82.270(b)	Prohibitions, Halon (03/05/98)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9’s website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions..> All other text may be found in the regulations themselves.

**Table IV. Abatement
 Source-specific Applicable Requirements
 Abatement**

[Thermal oxidizers A-0620, A-0622, A-0623, A-0624, A-0627, A-0628](#)
[Carbon Adsorption A-0629, A-0632, A-917, A-919, A-922](#)

[Note: A-917 and 919 abate sumps associated with #17 and #19 pump stations, and A-922 abates sump associated with comparator building. Though included in the companion Table VII, they were inadvertently deleted from Table IV and have been added back to the permit.](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 8869	<u>Applies to A-0620, A-0622, A-0623, A-0624, A-0627, and A-0628. Condition 8869 parts 1, 2, and 4 only apply when A-620, A-622, A-623, A-624, A-627, or A-628 is used to exempt an applicable source from Regulation 8, Rule 18 requirements per the exemption of Regulation 8-18-110.</u>		
Part 1	<u>Shall maintain VOC destruction efficiency ≥ 95% by wt. destruction efficiency, and operate at a minimum temperature of 1500F (applies to A620, A-627, and A-628)</u>	Y	
Part 2	<u>Shall maintain VOC destruction efficiency ≥ 95% by wt., and operate at a 95% destruction efficiency and minimum temperature of 1565F (applies to A-622, A-623, and A-624)</u>	Y	
Part 3	<u>Shall equip each thermal oxidizer with a continuous temperature monitor and each pump duct shall be equipped with a continuous flow monitor.</u>	Y	
Part 4	<u>Temperature monitoring (≥ 2 times/day) and Record keeping/Record retention</u>	Y	

IV. Source-Specific Applicable Requirements

Table IV.Abatement
Source-specific Applicable Requirements
Abatement

Thermal oxidizers A-0620, A-0622, A-0623, A-0624, A-0627, A-0628
Carbon Adsorption A-0629, A-0632, A-917, A-919, A-922

Note: A-917 and 919 abate sumps associated with #17 and #19 pump stations, and A-922 abates sump associated with comparator building. Though included in the companion Table VII, they were inadvertently deleted from Table IV and have been added back to the permit.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	S-32111 through S-32116 shall not be exempt per Regulation 8-18-110 and shall comply with Regulation 8-18 requirements at all times unless it is demonstrated that the reduction efficiency of the abatement device is > 95% by wt, and they can be placed on the Reg. 8-18 non-repairable equipment list only if the requirements outlined in the permit condition are met.	Y	
Part 6	A-622 and A-627 may be used as back-up abatement devices to A-620, A-623, A-624, and A-628.	Y	
BAAQMD Condition 25703	Applies to A-0629		
Part 1	Abatement requirement	Y	
Part 2	Single carbon train operation limitation	Y	
Part 3	FID daily monitoring	Y	
Part 4	Representative monitoring	Y	
Part 5	Daily recordkeeping	Y	
Part 6	95% abatement efficiency	Y	
Part 7	TOC outlet concentration limit of 2.0 ppmv	Y	
Part 8	First carbon vessel breakthrough definition	Y	
Part 9	Second carbon vessel breakthrough definition	Y	
Part 10	Last carbon vessel breakthrough definition	Y	
Part 11	Flow rate limit of 4.0 cubic feet per minute	Y	
Part 12	Flow meter verification	Y	
Part 13	Maintenance requirements	Y	
Part 14	Recordkeeping	Y	
BAAQMD Condition 25835	Applies to A-0632		
Part 1	Backup abatement allowance	Y	
Part 2	Prohibition against using more than one train	Y	

IV. Source-Specific Applicable Requirements

Table IV. Abatement
Source-specific Applicable Requirements
Abatement

Thermal oxidizers A-0620, A-0622, A-0623, A-0624, A-0627, A-0628
Carbon Adsorption A-0629, A-0632, A-917, A-919, A-922

Note: A-917 and 919 abate sumps associated with #17 and #19 pump stations, and A-922 abates sump associated with comparator building. Though included in the companion Table VII, they were inadvertently deleted from Table IV and have been added back to the permit.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	FID daily monitoring	<u>Y</u>	
Part 4	Representative monitoring	<u>Y</u>	
Part 5	Daily TOC log	<u>Y</u>	
Part 6	95% abatement efficiency requirement	<u>Y</u>	
Part 7	First carbon vessel breakthrough definition	<u>Y</u>	
Part 8	Second carbon vessel breakthrough definition	<u>Y</u>	
Part 9	Last carbon vessel breakthrough definition	<u>Y</u>	
Part 10	Flow rate limit of 4.0 cubic feet per minute	<u>Y</u>	
Part 11	Flow meter verification	<u>Y</u>	
Part 12	Maintenance requirements	<u>Y</u>	
Part 13	Recordkeeping	<u>Y</u>	
40 CFR Part 60 Subpart A	General Provisions	Y	
60.13(i)	Alternative monitoring provisions	Y	
60.18	General control device requirements	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (12/1/156/24/08)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.1.1 Combustion (Cogeneration))

Table IV.A.1.1 Combustion
 Source-specific Applicable Requirements
Cogeneration

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)		
1-107	Commingled Exhaust: Standard applies to System	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99 {adopted 10/7/98})		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2 Rule 1	Regulation 2, Rule 1 – Permits, General Requirements (11/19/0812/6/17; SIP approved 1/26/998/1/16 {adopted 11/1/89}) [Applicable if Subject to CEM Monitoring by permit condition (BACT)]		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/998/1/16 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring by permit condition (BACT)]		
2-1-403	Permit conditions-measurement of emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)		
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP for Heat Transfer Operations	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion
 Source-specific Applicable Requirements
 Cogeneration**

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90/9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/98/99 {version adopted 5/20/92})		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 9	Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (12/6/06)		
9-9-301.1	Emission Limits – General (until 1/1/2010)	N	
9-9-301.2	Emission Limits – General;	N	
9-9-301.3	Emission Limits – General; Turbines that Burn Mixtures of Fuels	N	
9-9-301.4	Emission Limits – General; Rebuttal Option for Alternative NOx Emission Standard Limits	N	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring and Recordkeeping(CEM)	N	
SIP BAAQMD Regulation 9 Rule 9	Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (9/21/94/17/97)		
9-9-301	Emission Limits – General	Y	
9-9-301.3	Emission Limits	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring (CEM)	Y	
BAAQMD Regulation 9 Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02/10/16/13)		
9-10-110.3	Exemption: Waste heat recovery boilers associated with gas turbines	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion
 Source-specific Applicable Requirements
 Cogeneration**

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (12/1/156/24/08)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO2 emission definitions for 60.7(c)	Y	
NSPS 40 CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines (2/24/067/14)		
60.333	Performance Standards, SO2	Y	
60.333 (a)	SO2 Volumetric Emission Limit [option] or	Y	
60.333 (b)	Fuel Sulfur Limit [option]	Y	
60.334	Monitoring Requirements	Y	
60.334 (h,i)	Monitoring and Frequency	Y	
NSPS 40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [applies for our Duct Burners (i.e., Heat Recovery Steam Generator's=HRSG's S-4351 and S-4352) (4/28/092/27/14)		
60.44b(a)(4)	NOx limits for duct burner used in combined cycle system	Y	
60.44b (e)	Standard for Nitrogen Oxides	Y	
60.44b (h)	Nox Limit	Y	
60.44b (l)	Nox Limit, 30-Day Rolling Average	Y	
60.48b (h)	Not subject to requirement to install or operate Nox CEM	Y	
60.49b (a)	Notification	Y	
60.49b (d)	Records of fuel combusted	Y	
60.49b (g)	Maintain Records	Y	
60.49b (o)	Maintain Records	Y	
Condition #469	Refinery Cap (RLOP Cap Monthly Compliance Report)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion
 Source-specific Applicable Requirements
 Cogeneration**

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #1162	Permit condition parts are listed below:		
Part 1	Natural gas or LPG only (applies to S-4350 and S-4352)	Y	
Part 2	Refinery fuel gas or natural gas only (applies to S-4351 and S-4353)	Y	
Part 3	Diesel fuel < 864 gas-turbine hours/yr (applies to S-4350 and S-4352)	Y	
Part 4	Not operate when turbine not operating (applies to S-4351 and S-4353)	Y	
Part 5	Max design capacity (applies to S-4350, S-4351, S-4352, S-4353)	Y	
Part 6	Nox < 10 ppm (applies to S-4350, S-4351, S-4352, S-4352, A0072, A0073)	Y	
Part 8	Monitor fuel & steam (applies to S-4350, S-4351, S-4352, S-4353)	Y	
Part 9	Diesel S < 0.05% (applies to S-4350 and S-4352)	Y	
Part 10	Reduce CO 80%(apply to S-4350, S-4351, S-4352, S-4353, A0070, A0071)	Y	
Part 11	Reduce HC 50%(apply to S-4350, S-4351, S-4352, S-4353, A0070, A0071)	Y	
Part 12	Nox, CO, and either a O2 or a CO2 CEMS (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 16	Maintain records (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 18	NH3 < 20 ppm (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 20	If exceed emissions offset...(applies to S-4350, S-4351, S-4352, S-4353).	Y	
Condition 22262	Applies to S-4350 and S-4352	Y	
Part 1	Visible emissions inspection	Y	
Condition 22923	Sources S-4351 and S-4353 subject to NSPS subpart J	Y	
Condition #23201	Applies to S-4350 and S-4352	Y	
Part 1	Sources subject to NSPS Subparts A and J	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.2.1 Combustion (Flares)

Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare ~~V-282~~, S-6013 North Isomax Flare V-281,
 S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~
 S-6019 ~~V-732~~ Alky Flare ~~V-732~~, ~~S-6021 Hydrogen Plant Flare, S-6039 RLOPV-3501 Flare V-3501~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particulate Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	Particulate Matter Emission Rate	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 12 Rule 11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	6/4/04
12-11-501	Vent Gas Flow Monitoring	N	12/4/04
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	03/4/04
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	09/4/04
12-11-507	Video Monitoring	N	12/4/03
BAAQMD	Flares at Petroleum Refineries (4/5/06)		

IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements**

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare V-282, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~ S-6019 ~~V-732~~ Alky Flare V-732, S-6021 Hydrogen Plant Flare, S-6039 ~~RLOPV-3501~~ Flare V-3501

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 12 Rule 12			
12-12-301	Flare Minimization Plan Requirements	N	
12-12-401	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
40 CFR Part 60 Subpart A	General Provisions		
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (12/1/15/6/24/08)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO2 emission definitions for 60.7(e)	Y	
40 CFR Part 60 Subpart Ja	<u>Standards of Performance for Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007 (12/1/15)</u>		
60.100a	<u>Applicability</u>	<u>Y</u>	
60.100a(a)	<u>Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements**

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare V-282, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~ S-6019 ~~V-732~~ Alky Flare V-732, S-6021 Hydrogen Plant Flare, S-6039 ~~RLOPV-3501~~ Flare V-3501

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.100a(b)	Applicability: Flares which commenced construction, modification, or reconstruction after June 24, 2008	Y	
60.100a(c)	A modification to a flare is as defined by 60.100a(c)(1) or (2)	Y	
60.103a	Design, Equipment, Work Practice or Operational Standards	Y	
60.103a(f)	Compliance Dates for modified flares that were affected facilities subject to Subpart J prior to becoming affected facilities under 60.100a	Y	
60.103a(g)	BAAQMD alternative standard	Y	
60.103a(h)	162 ppmv 3-hour rolling average limit for non-relief valve leakage and non-emergency flaring events	Y	
60.103a(j)	Alternative means of emission limitation	Y	
60.107a(h)	Alternative monitoring for flares located in the BAAQMD	Y	
60.107a(a)(2)	The owner or operator of a flare that is subject to the H₂S concentration requirement in §60.103a(h) shall install, operate, calibrate and maintain an instrument for continuously monitoring and recording the concentration by volume (dry basis) of H₂S in the fuel gases before being burned in any fuel gas combustion device or flare.	Y	
60.108a(c)(1)	Record of flare management plan	Y	
60.108a(d)	Excess emissions report (for non-relief valve leakage and non-emergency flaring events)	Y	
40 CFR 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (12/1/15)		
63.640(s)	Overlap of subpart CC with other regulation for flares	Y	
63.655 (g)(11)	Periodic Reports for flares	Y	
63.655(i)	Retain reported information for 5 years unless otherwise specified	Y	
63.655(i)(9)	Recordkeeping for flares	Y	
63.670	Requirements for flare control devices	Y	
63.670(b)	Pilot flame presence	Y	
63.670(c)	Visible emissions	Y	
63.670(d)	Flare tip velocity	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements**

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare V-282, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~ S-6019 ~~V-732~~ Alky Flare V-732, S-6021 Hydrogen Plant Flare, S-6039 ~~RLOPV-3501~~ Flare V-3501

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(e)	Combustion zone operating limits	Y	
63.670(g)	Pilot flame monitoring	Y	
63.670(h)	Visible emissions monitoring	Y	
63.670(i)	Flare vent gas and steam assist flow rate monitoring	Y	
63.670(j)	Flare vent gas composition monitoring	Y	
63.670(k)	Calculation methods for cumulative flow rates and determining compliance with Vtip operating limits	Y	
63.670(l)	Calculation methods for determining flare vent gas net heating value	Y	
63.670(m)	Calculation methods for determining combustion zone net heating value	Y	
63.670(n)	Calculation methods for determining the net heating value dilution parameter	Y	
63.670(o)	Emergency flaring provisions	Y	
63.670(p)	Flare monitoring records	Y	
63.670(q)	Reporting	Y	
63.670(r)	Alternative means of emissions limitation	Y	
63.671	Requirements for flare monitoring systems	Y	
63.671(a)	Operation of CPMS	Y	
63.671(b)	CPMS monitoring plan	Y	
63.671(c)	Out-of control periods	Y	
63.671(d)	CPMS data reduction	Y	
63.671(e)	Additional requirements for gas chromatographs	Y	
Condition #469, part 15	The smokeless capacity of S-6015 shall not be less than 240,000 lb/hr. (Basis: RACT)	Y	
Condition #18137	Throughput Limits	N	
Condition #13370 Part 3	S-6016 & S-6019 flare pilots shall be fueled continuously with natural gas or refinery fuel gas. The flare will be operated only during periods of emergency upset or breakdown. Routinely vented process gases may not be flared.	Y	
Condition #13370 Part 4	S-6016 & S-6019 flaring shall be steam-assisted to prevent smoking.	Y	
Condition 18656	S-6010, S-6012, S-6013, S-6015, <u>S-6016</u> , <u>S-6017</u> , S-6019, S-6039		

IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements**

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare ~~V-282~~, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~ S-6019 ~~V-732~~ Alky Flare ~~V-732~~, ~~S-6021 Hydrogen Plant Flare,~~ S-6039 ~~RLOPV-3501~~ Flare ~~V-3501~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hourly vent gas and supplemental gas limits	Y	
Part 2	Vent gas record keeping	Y	
Part 3	Exclusive use of natural gas as supplemental gas to comply with NHVcz of 270 Btu/scf	NY	
Part 4	Compliance with 40 CFR 63.670 to ensure hydrocarbon DE >98% by wt.	NY	
Part 5	Hourly and annual supplemental gas limits	NY	
Part 6	Requirement to install dedicated natural gas flow rate monitors at each flare	NY	
Part 7	Update and maintain FMP where applicable per Regulation 12-12-404	NY	
Part 8	Install and operate CPMS per 40 CFR 63.671(b)	Y	
Part 9	Recordkeeping, reporting, record retention requirements	NY	
Part 310	Conditions for monitoring smoking flares: Definition of a flaring event Monitoring of Smoking Flares	Y	
Part 411	Conditions for monitoring smoking flares: Procedures for inspecting flares during a flaring event	Y	
Part 512	Conditions for monitoring smoking flares: Visual Inspection requirements for off-smoking flares	Y	
Part 613	Conditions for monitoring smoking flares: Recordkeeping requirements for all flaring events	Y	
Part 714	Conditions for ensuring flare is only used for upset gases (to be exempt from NSPS SO2 limitation and monitoring): S-6015 and S-6039 shall only to be used for burning process upset gases or fuel gas due to relief valve leakage or other emergency malfunctions (40 CFR 60.104 (a)(1))	NY	
Condition 23735	Subjects all refinery flares to NSPS subparts A and J	Y	
Condition #24921	Applies to S-6010 & S-6015	N	
Condition #24136	Applies to S-6021		
Part 9	Combined Annual Emissions limits with S-4471 and S-4472	N	
Part 26	Hydrocarbon and CO minimum destruction efficiency	N	
Part 27	Flare pilot and vented gas emissions factor and emission estimate requirements	Y	
Part 28	Gas flaring and vent gas limits	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion
 Source-specific Applicable Requirements**

Flares

S-6010 LSFO Flare, S-6012 ~~V-282~~ South Isomax Flare ~~V-282~~, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU,~~ S-6019 ~~V-732~~ Alky Flare ~~V-732~~, ~~S-6021 Hydrogen Plant Flare,~~ S-6039 ~~RLOPV-3501~~ Flare ~~V-3501~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 29	Flaring event monitoring	N	
Part 30	Procedures for inspecting flares during an event	Y	
Part 31	Visual inspection of flares	Y	
Part 32	Records of flaring events	N	
Part 33	Comply with the monitoring, recordkeeping and reporting requirements for the flare as outlined in Regulation 12-11	N	
Part 34	Operate the flare in accordance with the Flare Minimization Plan (FMP)	N	Post Modernization
Part 35	Hydrogen Plant fugitives requirements	Y	Post Modernization
Part 36	Hydrogen Plant fugitive components inspections	Y	Post Modernization
Part 37	Recordkeeping	N	Post Modernization
Part 119	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Exclusive use of natural gas as supplemental gas to comply with NHVcz of 270 Btu/scf		
Part 120	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Compliance with 40 CFR 63.670 to ensure hydrocarbon DE >98% by wt.		
Part 121	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Annual supplemental gas limit		
Part 122	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Requirement to install dedicated natural gas flow rate monitors at each flare		
Part 123	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Update and maintain FMP where applicable per Regulation 12-12-404		
Part 124	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Install and operate CPMS per 40 CFR 63.671(b)		
Part 125	FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS Recordkeeping, reporting, record retention requirements		

IV. Source-Specific Applicable Requirements

Table IV.A.3.1 Combustion (Furnaces)

Table IV.A.3.1 Combustion
 Source-specific Applicable Requirements

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4107 F-1 Heat Treating Furnace # 1 Boiler Shop (Post Weld Heat Treating Furnace),
~~S-4192 F-2170 Tail Gas Heater #1 SRU, S-4193 F-2270 Tail Gas Heater #2 SRU, S-4194 F-2370 Tail Gas Heater #3 SRU*~~ **Post Modernization**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)		
1-521	Monitoring may be required	Y	
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particulate Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
Condition #469	S-4107, S-4192, S-4193, S-4194 [Refinery Cap]	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.2 Combustion (Furnaces)

Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply ~~Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?~~

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~

~~S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/08 5/4/11)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520	Continuous Emission Monitoring [applies to all but S-4068, S-4069, S-4154, S-4158, S-4188, S-4189]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520.1	Nox CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520.8	Monitors pursuant to Regulation 2-1-403 [applies to all but S-4068, S-4069, S-4154, S-4158, S-4188, S-4189]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~

S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523	Parametric Monitoring and Recordkeeping Procedures [all-except S-4156-S-4157]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-602	Area and Continuous Monitoring Requirements	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply ~~Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?~~

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520	Continuous Emission Monitoring [applies to all but S-4068, S-4069, S-4154, S-4158, S-4188, S-4189]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520.1	Nox CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520.8	Monitors pursuant to Regulation 2-1-403 [applies to all but S-4068, S-4154, S-4158, S-4188, S-4189]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523	Parametric Monitoring and Recordkeeping Procedures [all-except S-4156-S-4157]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-602	Area and Continuous Monitoring Requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2 Rule 1	Regulation 2, Rule 1 – Permits, General Requirements (11/19/08/12/6/17; SIP approved 1/26/99 {adopted 11/01/89})		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/998/1/16 {adopted 11/01/89})		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-403	Permit conditions-measurement of emissions	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	<u>Total Suspended Particulate (TSP) Concentration Limits</u> Partiele-Weight Limitation	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310.3	TSP for Heat Transfer Operations	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply ~~Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?~~

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply ~~Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?~~

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/0210/16/13) <u>(Does not apply to S-4471 or S-4472)</u>		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-304	Emission Limit for Facility, Nox: 0.033-lbs Nox/MMBTU {applies for all sources listed in this table except S-4032 and S-4033 per 9-10-112}	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301.1	Start-up/Shutdown Contribution{applies for all sources listed in this table except S-4032 and S-4033}	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301.2	Out-of-Service Units Contribution{applies for all sources listed in this table except S-4032 and S-4033}	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-303	Federal Interim Facility-wide Nox emission rate limit {applies for all sources listed in this table except S-4032 and S-4033}	Y N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-305	CO emission limit	N	
9-10-308	<u>Alternate NOx Compliance Plan</u>	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-405	Application for an Alternate NOx Compliance Plan	N	
9-10-406	Determination of Compliance	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y/N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.1	CEMS for Nox, CO, and O2	Y/N	
9-10-502.2	Fuel flowmeters	Y/N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-503	<u>Modified Maximum Heat Input</u>	N	
9-10-504	Record <u>s</u> keeping	Y/N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~

S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting Requirements	Y N	
9-10-601	Determination of Nitrogen Oxides	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-604	Determination of Higher Heating Value	N	
9-10-605	Tune-Up Procedures	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP Regulation 9 Rule 10</u>	<u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (4/2/08) (S-4471 and S-4472 meet exemption in</u>		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	9-10-110.6)		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-306	Small Unit Requirements	Y	
9-10-502	Monitoring	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-503	Modified Maximum Heat Input	Y	
9-10-504	Records	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting Requirements	Y	
9-10-601	Determination of Nitrogen Oxides	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-605	Tune-Up Procedures	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart D [for S4070, S4071, S4072]	Standards of Performance for Steam Generating Units [only if constructed or modified after 8/17/71 AND having heat capacity > 250 MMBtu/hr] (4/28/092/16/12)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.42	Standard for Particulate Matter	Y	
60.42(a)(1)	0.1 lb PM/MMBtu Limit for fossil fuel burned	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~

S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.42(a)(2)	Limit of 20% opacity except for one six-minute period per hour of not more than 27% opacity (for fossil fuel burned)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44	Standard for Nitrogen Oxides	Y	
60.44(a)(1)	0.2 lb Nox/MMBtu Limit for Gaseous fossil fuel burned	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.45	Emission and Fuel Monitoring	Y	
60.45(a)	Install CEMS (including O2 CEM)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.45(b)(3)	Install Nox CEM and comply with applicable monitoring requirements of this subpart	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.45(g)	Excess emissions and monitoring system performance (MSP) reports shall be submitted to the Administrator semi-annually by the 30 th day following the end of each six-month period.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart Db [for S4155]	Standards of Performance for Steam Generating Units [only if constructed or modified after 6/19/84 AND having heat capacity > 100 MMBtu/hr] (4/28/092/27/14)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b	Standard for Nitrogen Oxides	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b(e)	0.1 lb Nox/MMBtu Limit for combusting natural gas with waste/byproduct (waste/byproduct definition includes refinery fuel gas)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b(h)	The Nox standard applies at all times	Y	
60.44b(i)	Compliance is determined on a 30-day rolling average basis	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.46b	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.46b(a)	The Nox standard applies at all times	Y	
60.48b	Emission Monitoring for Particulate Matter and Nitrogen Oxides	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(b)	Install, calibrate, and operate a Nox CEM	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(c)	CEM operated and data recorded during all periods of operating except for CEM breakdowns and repairs.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(d)	Use 1-hour average Nox CEM results to calculate lb Nox/MMBtu per 60.44b	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(e)	Follow 60.13 to install, calibrate, and operate CEMs.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(f)	Use standby system or Method 7 if Nox CEM downtime exceeds listed limits.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b	Reporting and Recordkeeping Requirements	Y	
60.49b(c)	Alternate CEM with approval of agency	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(d)	Maintain fuel records each operating day	Y	
60.49b(g)	Maintain records of listed information for each operating day.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(i)	Submit reports containing information required in 60.49b(g) for Nox CEM.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(v)	May submit quarterly electronic reports with agency approval.	Y	
60.49b(w)	Semi-annual reports due 30 th day following reporting period.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (12/1/1571/00) [Only if installed after 6/11/1973 AND burning refinery-made fuel gas] (6/24/08) (Does not apply to S-4471 and S-4472)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions. [Effectiveness requirement for sulfur plant]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105	Monitoring of Emissions and Operations	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>40 CFR Part 63 Subpart DDDDD</u>	<u>NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)</u>		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7485	Applicable to boilers and heaters located at a major source of HAP	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~

~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	emissions		
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	process heater		
63.7490(a)(1)	The affected source is the collection of all existing sources at a major	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	source:		
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas I fuels	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(e)		
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	assessment		
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	consistent with safety and good air pollution control practices for minimizing emissions		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500(e)	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	operating limits at all times of operation		
63.7510	Initial Compliance Requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct a tune-up in accordance with 63.7540(a)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(d)	Submit a signed statement in the Notification of Compliance Status report	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	that indicates a tune-up was conducted		
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	accurate depiction of the facility at the time of the assessment		
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)	Conduct a tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(10)(i)	-- Inspect the burner and clean or replace any components of the burner as	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	necessary		
63.7540(a)(10)(ii)	-- Inspect the flame pattern and adjust as necessary to optimize the flame pattern. Adjustments should be consistent with manufacturer's	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	specifications		
63.7540(a)(10)(iii)	-- Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (inspection)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	may be delayed until the next scheduled unit shutdown		
63.7540(a)(10)(iv)	-- Optimize total emissions of CO consistent with any applicable	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	manufacturer's specifications and any applicable NOx requirements		
63.7540(a)(10)(v)	-- Measure concentration of CO in the effluent stream in ppm, by volume, and oxygen in volume percent, before and after adjustments are made.	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Measurements may be taken using a portable CO analyzer.		
63.7540(a)(10)(vi)	-- Maintain on-site and submit, if requested by EPA, an annual report	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>containing the following information:</u>		
<u>63.7540(a)(10)(vi)</u>	<u>-- The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load,</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(A)	before and after the tune-up		
63.7540(a)(10)(vi)	-- A description of any corrective actions taken as part of the tune-up	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(B)			
63.7540(a)(10)(vi)	-- The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(C)	than one fuel type during that period		
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	must be conducted within 30 calendar days of startup		
63.7545	Notification Requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following January 31, 2016. The NOCS report must contain all the information in (e)(1) and (8)</u>	Y	3/31/16

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(c)."	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)	<u>Submit an annual, biennial, or 5-year compliance report instead of the semi-annual compliance report specified in Table 9 according to paragraphs (b)(1) through (4).</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(1)	The first annual, biennial, or 5-year compliance report must cover the period beginning on the compliance date and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(2)	<u>The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(3)	Each subsequent compliance report must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than January 31	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown</u>		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7560	Record Retention Requirements	Y	
63.7560(a)	Records must be in a form suitable and readily available for review	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	according to 63.10(b)(1)		
63.7560(b)	Keep records for 5 years following the date of each occurrence.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	measurement, maintenance, corrective action, report, or record.		
63.7560(c)	Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	the remaining 3 years		
63.7565	Applicability of General Provisions (Table 10)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition # 8773	Permit condition parts are listed below:		
Condition #8773	Permit condition parts are listed below:		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

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S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1a	Nox shall not exceed 8.85 lb/hr [applies to S-4155]	N	
Part 1b	Time of 1 st burner lighting [applies to S-4155]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1c	Nox mass rate calculation method [applies to S-4155]	N	
Part 2	CO shall not exceed 50 ppmv [applies to S-4155]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	O2 & Nox CEM required [applies to S-4155]	N	
Part 5	Fuel gas H2S shall not exceed 50 ppm [applies to S-4155]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Fuel use shall not exceed 209 MMBtu/Hr [applies to S-4155]	Y	
Condition #469	RLOP CAP, Monthly CME	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #469	S-4038-S-4041, S-4152, S-4154, S-4159- S-4171 , S-4188, S-4189 [Refinery Cap]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #469	Permit condition parts are listed below:		
Part 3A	Operate Nox CEM for each SCR [applies to S-4330, S-4331, S-4332, S-	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]		
Part 3B	Operate O2 CEM for each SCR [applies to S-4330, S-4331, S-4332, S-	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]		
Part 4A	Maintain records (including fuel input rate) [applies to S-4330, S-4331, S-	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]		
Part 6A	Do not burn fuel oil [applies to S-4155, S-4330, S-4331, S-4332, S-4333,	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply ~~Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?~~

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]		
Part 6B	Nox 8-hour average shall not exceed 40 ppm [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339,	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	A0065, A0066, & A0067]		
Part 13.1	47 MMBtu/Hr HHV Fuel Use Limit [applies to S-4159]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 13.2	45 MMBtu/Hr HHV Fuel Use Limit [applies to S-4160]	Y	
Part 13.3	Record fuel gas use monthly [applies to S-4159 and S-4160]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #16679	Permit condition parts are listed below:		
Part 1	120 lb-NH3/hr limit [applies for S-4170]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part-2	Flow-restriction-orifice-for-ammonia-[applies-for-S-4170]	N	
Part-3	SCR-operating-when-Nox-emitted-[applies-for-S-4170-and-A0260]	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Nox & O2 CEMS [applies for S-4170]	Y	
Part 5	Startup & shutdown time limits [applies for S-4170]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5a	Metallurgical & other extension [applies for S-4170]	Y	
Part 5b	Refractory work extension [applies for S-4170]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5e	Catalyst extension [applies for S-4170]	Y	
Part 6	Recordkeeping [applies for S-4170]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #16686			
Part 1	Firing Limits [applies for S-4044, S-4070, S-4071, S-4072,	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	S-4334, S-4335, S-4338, & S-4339, S-4152, S-4154, S-4159 to S-4163, S-4168, S-4170, S-4172]		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #21232	New Nox Box Conditions [effective 12/1/04]	N	1/1/05
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-3054 & 3085)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	9/1/04
Part 3	Operating conditions requirements for those sources without NOx CEM	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(basis: Regulation 9-10-502)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Nox box establishment requirements (basis: Regulation 9-10-502)	N	
Part 5	Nox box limits, ranges, and exceptions (basis: Regulation 9-10-502)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Nox Box Deviations (basis: Regulation 9-10-502)	N	
Part 7	Periodic sSource test requirements for those sources without NOx CEM	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(basis: Regulation 9-10-502)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	Periodic CO source test requirements for sources with NOx CEM (basis: Regulation 9-10-502, 1-522)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9	CO results requires <u>exceedance</u> and CEM <u>installation</u> (basis: Regulation 9-10-502, 1-522)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
Part 11	Summation of NOx emissions from sources in Part I to demonstrate	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>compliance with refinery-wide daily NOx limit in Alternative NOx Compliance Plan (basis: Offsets, Regulation 9-10-308)</u>		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 12	Procedure for demonstrating compliance with refinery-wide daily NOx limit in Alterantive NOx Compliance Plan (basis: Regulation 9-10-308)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
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~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 13	Quarterly Alterantive NOx Compliance Plan report submission requirement (basis: Regulation 9-10-505.2)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

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 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 22923	Sources subject to NSPS subpart J	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #23201	Applies to S-4038 S-4159, S-4160, S-4161, S-4168, S-4169, S-4152, S-4170, S-4171, S-4188, S-4189, S-4070, S-4071, S-4042, S-4062, S-4068, S-4334, S-4155, S-4332, S-4338, and S-4059	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Sources subject to NSPS Subparts A and J	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 23872	Applies to S-4042, S-4043, S-4044, S-4045, S-4059, S-4061, S-4062, S-4070, S-4071, S-4072, S-4129, S-4132, S-4135, S-4158, S-4167, S-4159, S-4160, S-4168, and S-4169, S-4170, and S-4171	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply **Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?**

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Consent decree NOx limits	Y	
Part 2	Firing rate limits for S-4170 and S-4171	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply [Hydrogen train furnaces do not fit this table/criteria. Is it possible to reformat this table to reduce the number of pages?](#)

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4038 F-3550 #4 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace,~~
 S-4045 F-580 #5 Cat Furnace, ~~S-4046 F-1 H.O. Heater Asphalt Plant,~~ S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, ~~S-4152 F-100 Asphalt Solution Heater SDA Isomax,~~ S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, ~~S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

~~S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,~~
~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Monitoring and compliance demonstration	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.3 Combustion (Furnaces)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (5/4/11)</u>		
<u>1-520</u>	<u>Continuous Emission Monitoring</u>	<u>N</u>	
<u>1-520.1</u>	<u>NOx CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr</u>	<u>N</u>	
<u>1-520.8</u>	<u>Monitors pursuant to Regulation 2-1-403</u>	<u>N</u>	
<u>1-521</u>	<u>Monitoring May Be required</u>	<u>Y</u>	
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-602</u>	<u>Area and Continuous Monitoring Requirements</u>	<u>N</u>	
<u>SIP Regulation 1</u>	<u>PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)</u>		
<u>1-520</u>	<u>Continuous Emission Monitoring</u>	<u>Y</u>	
<u>1-520.1</u>	<u>NOx CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr</u>	<u>Y</u>	
<u>1-520.8</u>	<u>Monitors pursuant to Regulation 2-1-403</u>	<u>Y</u>	
<u>1-521</u>	<u>Monitoring May Be required</u>	<u>Y</u>	
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-602</u>	<u>Area and Continuous Monitoring Requirements</u>	<u>Y</u>	
<u>BAAQMD Regulation 2 Rule 1</u>	<u>Regulation 2, Rule 1 – Permits, General Requirements (12/6/17; SIP approved 1/26/99 {adopted 11/01/89})</u>		
<u>2-1-403</u>	<u>Permit conditions-measurement of emissions</u>	<u>N</u>	
<u>2-1-501</u>	<u>Monitors</u>	<u>Y</u>	
<u>SIP Regulation 2, Rule 1</u>	<u>PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (8/1/16 {adopted 11/01/89})</u>		
<u>2-1-403</u>	<u>Permit conditions-measurement of emissions</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

**S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 6-1</u>	<u>Particulate Matter and Visible Emissions</u> <u>(8/1/18)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	N	
<u>6-1-305</u>	<u>Visible Particles</u>	N	
<u>6-1-310</u>	<u>Total Suspended Particulate (TSP) Concentration Limits</u>	N	
<u>6-1-310.3</u>	<u>TSP for Heat Transfer Operations</u>	N	
<u>SIP BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions</u> <u>(9/4/98)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	Y	
<u>6-305</u>	<u>Visible Particles</u>	Y	
<u>6-310</u>	<u>Particle Weight Limitation</u>	Y	
<u>6-310.3</u>	<u>Heat transfer operations</u>	Y	
<u>BAAQMD Regulation 9 Rule 10</u>	<u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)</u> <u>(S-4471 and S-4472 are exempt from Regulation 9, Rule 10 per Regulation 9-10-110.6 exemption)</u>		
<u>NSPS 40 CFR 60 Subpart J</u>	<u>Standards of Performance for Petroleum Refineries (12/1/15)</u> <u>(S-4471 and S-4472 are not subject to NSPS J because they were constructed after May 14, 2007)</u>		
<u>40 CFR Part 60 Subpart Ja</u>	<u>Standards of Performance for Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007 (7/13/16)</u>		
<u>60.100a</u>	<u>Applicability</u>	Y	
<u>60.102a(g)(1)(ii)</u>	<u>Limit on H2S emissions from an affected fuel gas combustion device</u>	Y	
<u>60.102a(g)(2)(ii)</u>	<u>Limit on NOx emissions from an affected fuel gas combustion device for a forced draft process heater</u>	Y	
<u>60.103a</u>	<u>Design, Equipment, Work Practice Or Operational Standards</u>	Y	
<u>60.104a</u>	<u>Performance Tests</u>	Y	
<u>60.107a</u>	<u>Monitoring Of Emissions And Operations For Fuel Gas Combustion Devices And Flares</u>	Y	
<u>60.107a(a)(3)</u>	<u>SO2 and H2S monitoring not required for streams that are inherently low in sulfur content</u>	Y	
<u>60.108a</u>	<u>Recordkeeping and Reporting Requirements</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

**S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>NESHAP 40 CFR 63 Subpart A</u>	<u>General Provisions (06/25/13)</u>		
<u>63.1</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.2</u>	<u>Definitions, with additional terms defined in 6.37575</u>	<u>Y</u>	
<u>63.3</u>	<u>Units and abbreviations</u>	<u>Y</u>	
<u>63.4</u>	<u>Prohibited Activities and Circumvention</u>	<u>Y</u>	
<u>63.6(a)(1)</u>	<u>Applicability for affected sources</u>	<u>Y</u>	
<u>63.6(c)</u>	<u>Compliance dates for existing sources</u>	<u>Y</u>	
<u>63.6(j)</u>	<u>Presidential exemption</u>	<u>Y</u>	
<u>63.9(b)(2)</u>	<u>Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date</u>	<u>Y</u>	
<u>63.9(h)(2)</u>	<u>Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority</u>	<u>Y</u>	
<u>63.10(a)(2)(ii)</u>	<u>Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA</u>	<u>Y</u>	
<u>63.10(a)(5)</u>	<u>Recordkeeping and Reporting Requirements: Periodic Report submittal dates</u>	<u>Y</u>	
<u>63.10(b)(1)</u>	<u>Recordkeeping and Reporting Requirements: General recordkeeping requirements</u>	<u>Y</u>	
<u>63.10(d)(1)</u>	<u>Recordkeeping and Reporting Requirements: General reporting requirements</u>	<u>Y</u>	
<u>63.10(f)</u>	<u>Recordkeeping and Reporting Requirements: Waivers</u>	<u>Y</u>	
<u>40 CFR Part 63 Subpart DDDDD</u>	<u>NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)</u>		
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.7490(a)</u>	<u>Applicable to any new, reconstructed, or existing industrial boiler or process heater</u>	<u>Y</u>	
<u>63.7490(a)(1)</u>	<u>The affected source is the collection of all existing sources at a major source;</u>	<u>Y</u>	
<u>63.7490(d)</u>	<u>A boiler or process heater is existing if it is not new or reconstructed.</u>	<u>Y</u>	
<u>63.7495(b)</u>	<u>Comply with the work practice standards for existing boilers and process heaters by January 31, 2016</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

**S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

**S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

**S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	Y	
Condition #24136			
Part 7	Fire natural gas and PSA tail gas only. Maximum of 30% natural gas of the total annual fuel usage	Y	
Part 8	Properly operate and maintain SCR units A-0302 and A-0303. Abate at all times of operation except startup, shutdown, dryout/warmup, and commissioning	Y	
Part 9	Combined annual emission limits	Y	
Part 10	CEM and recorder for NOx, CO and O2	Y	
Part 11	Continuous fuel flow monitoring and recording, gas composition analysis and sulfur content of the fuels	Y	
Part 12	Maximum heat input limits	Y	
Part 13	Definitions and requirements for Commissioning Period, Commissioning Activities, Furnace Startup, Shutdown, and Dryout/Warmup	Y	
Part 14	Emission limits for NOx, CO, PM10, POC, and SO2 except during startup, shutdown, dryout/warmup, and commissioning periods, unless otherwise noted	Y	
Part 15	CEM for NOx and CO, and fuel consumption and source test emission factors for emissions limits	Y	
Part 16	Ammonia injection SCR requirements, ammonia slip limit, and catalyst bed temperature	Y	
Part 17	Initial source test for POC, PM10, SO2, and ammonia slip	Y	
Part 18	Demonstrate subsequent compliance with the POC, PM10, and SO2 mass emission rates and the ammonia slip limit	Y	
Part 19	Emission limits for TACs	N	
Part 20	Source tests for TACs	N	
Part 35	Hydrogen Plant fugitives requirements	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.3.3 Combustion
 Source-Specific Applicable Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 36	Hydrogen Plant fugitive components inspections	Y	
Part 37	Recordkeeping	N	
Part 38	Fuel Usage Recordkeeping	N	
Part 103	Modernization Project Commissioning Period requirements	Y	

Table IV.A.3.5 Combustion (Furnaces)

Table IV.A.3.5 Combustion
 Source-specific Applicable Requirements

Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply

S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO-2000)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation-1	General Provisions and Definitions (7/9/08)		
1-521	Monitoring may be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation-1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		

IV. Source-Specific Applicable Requirements

**Table IV.A.3.5 Combustion
 Source-specific Applicable Requirements**

Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply

S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO-2000)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2 Rule 1	Regulation 2, Rule 1—Permits, General Requirements (11/19/08; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
SIP Regulation 2 Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions-measurement of emissions	Y	
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
NSPS 40-CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (6/24/08)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry-basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(e)	Y	

IV. Source-Specific Applicable Requirements

~~Table IV.A.3.5 Combustion
 Source-specific Applicable Requirements~~

~~Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply~~

~~S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO-2000)~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #469	RLOP CAP, monthly CME Permit condition parts are listed below:		
Part 6 E1	Burn only natural gas or refinery fuel gas [applies for S-4349]	Y	
Part 6 E2	20 ppmv Nox limit [applies for S-4349]	Y	
Part 6 E3	50 ppmv CO limit [applies for S-4349]	Y	
Part 6 E4	Source test may meet annual compliance demonstration requirement [applies for S-4349]	Y	

IV. Source-Specific Applicable Requirements

Table IV.A.4.1 Combustion (Engines)

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

**S-3235 Emergency Standby Diesel Storm Water Pump Engine, ~~S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Standby Fire Pump Diesel Engine, S-7536 Standby Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines,~~
~~S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine, Engines under 250 hp~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Engines used solely as a standby source of motive power (does not apply to S-7513, S-7514, S-7523)	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 5/20/926/8/99)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-602	Sulfur Content of Fuel	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		

IV. Source-Specific Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-3235 Emergency Standby Diesel Storm Water Pump Engine, S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Standby Fire Pump Diesel Engine, S-7536 Standby Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines, S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine, Engines under 250 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-110.1	Exemption (until 1/1/12), Engines < 250 hp (applies to S-7508, 7509, 7530, & 7537)	N	
9-8-110.2	Exemption, Engines ≤ 50 hp	N	<u>1/1/12</u>
9-8-110.3	Exemption (until 1/1/12), Engines Fired Exclusively by Liquid Fuels	N	
9-8-110.5	Exemption. Emergency Standby Engines (does not apply to S-4401, S-7537)	N	
9-8-304.1	Emission Limits—Compression-Ignited Engines, 51 to 175 bhp (applies to S-7537 only)	N	<u>1/1/10</u>
9-8-304.2	Emission Limits – Compression-Ignited Engines, Greater than 175 bhp (applies to S-4401 only)	N	<u>1/1/10</u>
9-8-305	Emission Limits – Delayed Compliance, Existing CI Engines, Model Year 1996 and/or Later (applies to S-7537 only)	N	<u>1/1/10</u>
9-8-330	Emergency Standby Engines, Hours of Operation (does not apply to S-4401)	N	
9-8-330.1	For Emergency Use, Unlimited Hours (does not apply to S-4401)	N	
9-8-330.2	For Reliability-Related Activities (until 1/1/12), up to 100 hr per calendar year	N	
9-8-330.3	For Reliability-Related Activities, up to 50 hr per calendar year, not including NFPA 25 testing hours (does not apply to S-4401)	N	<u>1/1/12</u>
9-8-401	Compliance Schedule	N	
9-8-402	Reporting Requirements for Delayed Compliance	N	
9-8-501	Initial Demonstration of Compliance (does not apply to new engines S-3235, S-4401)	N	
9-8-502	Recordkeeping	N	
9-8-503	Quarterly Demonstration of Compliance (applies to S-4401)	N	
9-8-530	Emergency Standby and Low Usage Engines, Monitoring and Recordkeeping (does not apply to S-4401)	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-3235 Emergency Standby Diesel Storm Water Pump Engine, S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Standby Fire Pump Diesel Engine, S-7536 Standby Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines, S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine, Engines under 250 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/934/17/97)		
9-8-110.2	Exemption, Engines Fired Exclusively by Liquid Fuels	Y	
17 CCR 93115 (Stationary Diesel Engine ATCM)	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (10/18/075/19/11)	N	
40 CFR 60 Subpart IIII	NSPS For Stationary CI Internal Combustion Engines (6/28/11) (applies to S-3235, S-4401 , S-7541, S-7542, S-7543, S-7013, S-7534, S-7535, S-7536, S-7538, S-7539, S-7541, S-7542, S-7543)	Y	
40 CFR 63 Subpart ZZZZ	NESHAP For Stationary Reciprocating Internal Combustion Engines (1/18/082/27/14) (applies to S-7013 and S-7538 only)	Y	
Condition # 20225	Applies to S-7501, S-7507 – IC Engine, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, S-7531 IC Engine		
Part-1	Hours of Operation Limit (applies to S-7501 only)	N	
Part-2	Hour or Fuel Meter Requirement (applies to S-7501 only)	N	
Part-3	Records (applies to S-7501 only)	N	
Part-4	Hour or Fuel Meter Requirement (applies to S-7507 – IC Engine, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine only)	N	
Part-5	Records (applies to S-7507 – IC Engine, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine only)	N	
Condition 22569	Applies to S-7013		
Part-1	Hours of operation	N	
Part-2	Time recorder	N	
Part-3	Record keeping	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-3235 Emergency Standby Diesel Storm Water Pump Engine, S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Standby Fire Pump Diesel Engine, S-7536 Standby Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines, S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine, Engines under 250 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	California ATCM diesel requirement	N	
Condition 22820	Applies to S-7501, S-7507, S-7508, S-7509, S-7511, S-7512, S-7515, and S-7516, S-7517, S-7521, and S-7531	N	
Part 1	Hours of operation	N	
Part 2	Emergency Operation	N	
Part 3	Time recorder	N	
Part 4	Recordkeeping	N	
Part 5	If located within 500 ft of a School	N	
Condition 22850	Applies to S-3235, S-7534, S-7535, S-7536, S-7538, S-7539, S-7541, S-7542, S-7543, S-7013	N	
Part 1	Hours of operation	N	
Part 2	Emergency Operation	N	
Part 3	Time recorder	N	
Part 4	Recordkeeping	N	
Part 5	California ATCM diesel requirement	N	
Condition 24022	Applies to S-7537		
Part 1	Abatement requirement—diesel particulate filter	N	
Part 2	Visual inspection	N	
Part 3	Permit expiration	N	
Part 4	Notification of shutdown	N	
Part 5	Record keeping	N	
Condition 24070	Applies to S-7513, S-7514, S-7523,	N	
Part 1	Abatement requirement—diesel particulate filter	N	
Part 2	Hours of operation	N	
Part 3	Emergency operation	N	

IV. Source-Specific Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-3235 Emergency Standby Diesel Storm Water Pump Engine, S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, S-7523 IC Engine, and S-7531 IC Engine, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Standby Fire Pump Diesel Engine, S-7536 Standby Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines, S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine, Engines under 250 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Time recorder	N	
Part 5	Recordkeeping	N	
Condition 24285	Applies to S-7539	N	
Part 1	Abatement requirement	N	
Part 2	Monitoring requirement	N	
Part 3	Low sulfur diesel requirement	N	
Condition 26127	Applies to S-4401	N	
Part 1	Emission rate or mass rate emissions limit	N	
Part 2	Initial and subsequent TSP source testing requirement	N	
Part 3	Source Test protocol submission requirement	N	
Part 4	Source Test notification, submission, and retention requirement	N	
Part 5	Fuel usage recordkeeping requirement	N	

IV. Source-Specific Applicable Requirements

Table IV.A.5.1 Combustion (Boilers)

Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements

Boilers

S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) [adopted 10/7/98]		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2 Rule 1	Regulation 2, Rule 1 – Permits, General Requirements (11/19/0812/6/17; SIP approved 1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
SIP Regulation 2 Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/998/1/16 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]		
2-1-403	Permit conditions-measurement of emissions	Y	
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Partiele-Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310.3	Heat transfer operations	Y	
BAAQMD Regulation 9 Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/0210/16/13)		
9-10-303	Federal Interim Facility-wide Nox emission rate limit	<u>N</u>	
9-10-305	CO emission limit	<u>N</u>	
9-10-308	Alternate NOx Compliance Plan	<u>N</u>	
9-10-405	Application for an Alternate NOx Compliance Plan	<u>N</u>	
9-10-406	Determination of Compliance	<u>N</u>	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	<u>N</u>	
9-10-502	Monitoring	<u>N</u>	
9-10-502.1	CEMS for Nox, CO, and O2	<u>N</u>	
9-10-502.2	Fuel flowmeters	<u>N</u>	
9-10-503	Modified Maximum Heat Input	<u>N</u>	
9-10-504	Records	<u>N</u>	
9-10-505	Reporting Requirements	<u>N</u>	
9-10-601	Determination of Nitrogen Oxides	<u>N</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	<u>N</u>	
9-10-603	Compliance Determination	<u>N</u>	
9-10-604	Determination of Higher Heating Value	<u>N</u>	
9-10-605	Tune-Up Procedures	<u>N</u>	
9-10-304	Emission Limit for Facility, Nox: 0.033-lbs Nox/MMBTU	<u>N</u>	
9-10-301.1	Start-up/Shutdown Contribution	<u>N</u>	
9-10-301.2	Out-of-Service Units Contribution	<u>N</u>	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	<u>N</u>	
9-10-303	Emission Limit for Facility (Federal Requirements)	<u>Y</u>	
9-10-305	CO emission limit	<u>N</u>	
9-10-403	Clean-Fuel Extension Compliance Date	<u>N</u>	
9-10-502	Monitoring	<u>Y</u>	
9-10-502.1	CEMS for Nox, CO, and O2	<u>N</u>	
9-10-502.2	Fuel flowmeters	<u>Y</u>	
9-10-504	Recordkeeping	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	N	
SIP Regulation 9 Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (4/2/08)		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-306	Small Unit Requirements	Y	
9-10-502	Monitoring	Y	
9-10-503	Modified Maximum Heat Input	Y	
9-10-504	Records	Y	
9-10-505	Reporting Requirements	Y	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
9-10-605	Tune-Up Procedures	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (12/1/156/24/08)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct a tune-up in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(d)	Submit a signed statement in the Notification of Compliance Status report that indicates a tune-up was conducted	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)	Conduct a tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(10)(-- Inspect the burner and clean or replace any components of the burner as	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
i)	<u>necessary</u>		
63.7540(a)(10)(ii)	<u>-- Inspect the flame pattern and adjust as necessary to optimize the flame pattern. Adjustments should be consistent with manufacturer's specifications</u>	<u>Y</u>	
63.7540(a)(10)(iii)	<u>-- Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (inspection may be delayed until the next scheduled unit shutdown)</u>	<u>Y</u>	
63.7540(a)(10)(iv)	<u>-- Optimize total emissions of CO consistent with any applicable manufacturer's specifications and any applicable NOx requirements</u>	<u>Y</u>	
63.7540(a)(10)(v)	<u>-- Measure concentration of CO in the effluent stream in ppm, by volume, and oxygen in volume percent, before and after adjustments are made. Measurements may be taken using a portable CO analyzer.</u>	<u>Y</u>	
63.7540(a)(10)(vi)	<u>-- Maintain on-site and submit, if requested by EPA, an annual report containing the following information:</u>	<u>Y</u>	
63.7540(a)(10)(vi)(A)	<u>-- The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up</u>	<u>Y</u>	
63.7540(a)(10)(vi)(B)	<u>-- A description of any corrective actions taken as part of the tune-up</u>	<u>Y</u>	
63.7540(a)(10)(vi)(C)	<u>-- The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one fuel type during that period</u>	<u>Y</u>	
63.7540(a)(13)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	<u>Y</u>	
63.7545	<u>Notification Requirements</u>	<u>Y</u>	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	<u>Y</u>	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following January 31, 2016. The NOCS report must contain all the information in (e)(1) and (8)</u>	<u>Y</u>	<u>3/31/16</u>
63.7545(e)(1)	<u>A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned</u>	<u>Y</u>	<u>3/31/16</u>
63.7545(e)(8)	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	<u>Y</u>	<u>3/31/16</u>
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	<u>Y</u>	<u>3/31/16</u>
63.7545(e)(8)(i)	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	<u>Y</u>	<u>3/31/16</u>
63.7550	<u>Reports</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(a)	Submit each report in Table 9 that applies	<u>Y</u>	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the semi-annual compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	<u>Y</u>	
63.7550(b)(1)	The first annual, biennial, or 5-year compliance report must cover the period beginning on the compliance date and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date	<u>Y</u>	
63.7550(b)(2)	The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31	<u>Y</u>	
63.7550(b)(3)	Each subsequent compliance report must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31	<u>Y</u>	
63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than January 31	<u>Y</u>	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	<u>Y</u>	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	<u>Y</u>	
63.7550(c)(5)	Information required in compliance reports	<u>Y</u>	
63.7550(c)(5)(i)	Company and Facility name and address	<u>Y</u>	
63.7550(c)(5)(i)	Process Unit information	<u>Y</u>	
63.7550(c)(5)(i)	Date of report and beginning and ending dates of the reporting period	<u>Y</u>	
63.7550(c)(5)(x)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	<u>Y</u>	
63.7550(c)(5)(x)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	<u>Y</u>	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	<u>Y</u>	
63.7550(h)(3)	Electronic submission of reports	<u>Y</u>	
63.7555	Recordkeeping	<u>Y</u>	
63.7555(a)	Required records	<u>Y</u>	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart.	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)		
63.7560	Record Retention Requirements	<u>Y</u>	
63.7560(a)	Records must be in a form suitable and readily available for review according to 63.10(b)(1)	<u>Y</u>	
63.7560(b)	Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	<u>Y</u>	
63.7560(c)	Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years	<u>Y</u>	
63.7565	Applicability of General Provisions (Table 10)	<u>Y</u>	
Condition #469	RLOP CAP, monthly CME	Y	
Condition #16686			
Part 1	Firing Limits [applies for S-4131, S-4132, S-4133]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #21232	New Nox Box Conditions [effective 6/1/04]	N	
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-305 & 308)	NN	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	NN	
Part 3	Operating conditions requirements for those sources without NOx CEM (basis: Regulation 9-10-502)	NN	
Part 4	Nox box establishment requirements (basis: Regulation 9-10-502)	NN	
Part 5	Nox box limits, ranges, and exceptions (basis: Regulation 9-10-502)	NN	
Part 6	Nox Box Deviations (basis: Regulation 9-10-502)	NN	
Part 7	Periodic source test requirements for those sources without NOx CEM (basis: Regulation 9-10-502)	NN	
Part 8	Periodic CO source test requirements for sources with NOx CEM (basis: Regulation 9-10-502, 1-522)	NN	
Part 9	CO exceedance and CEM installation (basis: Regulation 9-10-502, 1-522)	NN	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	NN	
Part 11	Summation of NOx emissions from sources in Part 1 to demonstrate compliance with refinery-wide daily NOx limit in Alterantive NOx Compliance Plan (basis: Offsets, Regulation 9-10-308)	N	
Part 12	Procedure for demonstrating compliance with refinery-wide daily NOx limit in Alterantive NOx Compliance Plan (basis: Regulation 9-10-308)	N	
Part 13	Quaterly Alterantive NOx Compliance Plan report submission requirement (basis: Regulation 9-10-505.2)	N	
Condition 23872	Applies to S-4129, S-4132, and S-4135	Y	

IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion
 Source-specific Applicable Requirements**

Boilers

S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3,
 S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5,
 S-4135 800 lb. Steam Boiler No. 7

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Consent decree NOx limits	Y	
Part 2	Firing rate limits for S-4170 and S-4171	Y	
Part 3	Monitoring and compliance demonstration	Y	

Table IV.B.1.1 Loading Terminals (Asphalt)

**Table IV.B.1.1 Loading Terminals
 Source-specific Applicable Requirements**

Asphalt

S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Rack abated by A-4241 Mist Eliminator,
 S-4415 Asphalt Tank Truck Loading Rack abated by A-0037 Mist Eliminator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particle Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/1994)		

IV. Source-Specific Applicable Requirements

**Table IV.B.1.1 Loading Terminals
 Source-specific Applicable Requirements**

Asphalt

**S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Rack abated by A-4241 Mist Eliminator,
 S-4415 Asphalt Tank Truck Loading Rack abated by A-0037 Mist Eliminator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
Condition #1331	Permit condition parts are listed below:		
Part 1	Applies to S-4415: Abated by A-0037 mist eliminator except when the abatement device A-0037 is down for cleaning or repairs	Y	
Part 2	Applies to S-4415; Chevron shall not load more than 238,000 gallons of asphalt per day when the abatement device A-0037 is down for cleaning or repairs	Y	
Part 3	Daily throughput records when A-0037 is down for cleaning or repairs	Y	
Condition #469	Refinery Cap	Y	

IV. Source-Specific Applicable Requirements

Table IV.B.2.1 Loading Terminals (Gasoline)

**Table IV.B.2.1 Loading Terminals
 Source-specific Applicable Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 7	Organic Compounds – Gasoline Dispensing Facilities (11/6/02)		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppeted Drybreaks	Y	
8-7-301.8	No Coaxial Phase I Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	Phase I Vapor Recovery System - Vapor Tightness Test	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-in Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.11	ORVR Compatible	Y	

IV. Source-Specific Applicable Requirements

**Table IV.B.2.1 Loading Terminals
 Source-specific Applicable Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-302.12	Liquid Retainment Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-302.14	Balance Phase II Vapor Recovery System – Back Pressure Test	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-315	Pressure Vacuum Valve Requirement, Underground Storage Tank	Y	
8-7-401	Permit Requirements, New and Modified Installations	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-601	Determination of Equipment in Compliance with Dynamic Backpressure Requirements and Vapor Tight	Y	
8-7-602	Determination of Equipment in Compliance with Vapor Tightness Standards	Y	
8-7-603	Determination of Equipment in Compliance with Phase I Vapor Recovery Efficiency	Y	
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements	Y	
8-7-606	Determination of Applicability	Y	
Part 1 Condition 7880	Throughput limit	N	

IV. Source-Specific Applicable Requirements

**Table IV.B.2.1 Loading Terminals
 Source-specific Applicable Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 18680	Applies to S-9304	N	
Condition 22951	Applies to S-9304	N	
Condition 24294	Applies to S-9304	N	
CARB State Exec. Order VR-101/201 condition 20666	Applies to S-9304	N	

Table IV.B.3.1 Loading Terminals (LPG)

**Table IV.B.3.1 Loading Terminals
 Source-specific Applicable Requirements**

LPG

S-4238 Liquefied Petroleum Gas Loading Rack, 15 Pumps

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic Compounds-Organic Liquid Bulk Terminals and Bulk Plants (2/2/94)		
8-6-117	Exemption, Liquefied Organic Gases	Y	
8-6-503	Burden of Proof	Y	
Permit Condition 469	Refinery Cap		

IV. Source-Specific Applicable Requirements

Table IV.B.4.1 Loading Terminals (Wax)

**Table IV.B.4.1 Loading Terminals
 Source-specific Applicable Requirements**

Wax

S-4239 Main Tank Car Loading Rack S-4405 Heavy Oil Transloading Operation –

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic compounds-Organic Liquid Bulk Terminals and Bulk Plants (2/2/94)		
8-6-111	Low Throughput exemption (Limited exemption applies to S-4239 and S-4405)	Y	
8-6-301	CARB Certification and VOC limit 21g/cubic meter	Y	
8-6-302.1	CARB Certification and VOC limit 44 g/cubic meter	Y	
8-6-302.2	Submerged Fill pipe, bottom filling, or a vapor loss control system	Y	
8-6-503	Burden of Proof	Y	
Condition #469	Bubble Condition	Y	
Condition 20863	Applies to S-4405	N	

Table IV.B.5.1 Loading Terminals (Wharf)

**Table IV.B.5.1 Loading Terminals
 Source-specific Applicable Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 44	Organic Compounds-Marine Tank Vessel Operations (12/7/05)		
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-302	Limitations on Marine Tank Vessel Ballasting	N	
8-44-303	Limitations on Marine Tank Vessel Venting	N	

IV. Source-Specific Applicable Requirements

**Table IV.B.5.1 Loading Terminals
 Source-specific Applicable Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-304	Emission Control Requirements	N	
8-44-305.1, 305.3, and 305.4	Equipment Leaks (<u>pertaining to Marine Terminals</u>)	N	
8-44-403	Notifications Regarding Safety/Emergency Exemption	N	
8-44-404	Notifications for Operations Conducted Other Than at Marine Terminals	N	
8-44-501	Recordkeeping	N	
8-44-501.1	Records for loading events	N	
8-44-501.2	Records for ballasting operations	N	
8-44-501.3	Records for venting operations	N	
8-44-502	Record Keeping—Marine Tank Vessels	N	
8-44-503	Record Keeping – Exemptions	N	
8-44-504	Burden of Proof	Y	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	
SIP BAAQMD Regulation 8 Rule 44	Organic Compounds-Marine Vessel Loading Terminals (1/4/898/30/93)		
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 bbls) of organic liquid loaded, or	Y	
8-44-301.2	POC emissions reduced 95% by weight from uncontrolled conditions	Y	
8-44-302	Emission control equipment	Y	
8-44-303	Operating practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-305	Ozone excess day prohibition	Y	

IV. Source-Specific Applicable Requirements

**Table IV.B.5.1 Loading Terminals
 Source-specific Applicable Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other rules	Y	
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Record keeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of proof	Y	
Condition #4714	Permit condition parts are listed below:		
Part 3	A-0900 instrumentation to monitor and record parameters	Y	
Part 6	A-0900 Vapor Recovery System exhaust temperature limit	Y	
Part 8	S-9322, S-9323, S-9324, S-9325 loading pressure limit	Y	
Part 9	A-0900 recordkeeping requirements	Y	
Condition #18137	Throughput Limits	N	
Condition # 469	Refinery Cap	Y	
Condition #23201	Applies to A-0900	Y	
Part 1	Source subjects to NSPS Subparts A and J	Y	

IV. Source-Specific Applicable Requirements

Table IV.C.1.1 Process Units (Cooling Water Towers)

Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3-4~~Cat, S-4172 Isomax-~~E-261F~~, S-4173 FCC-~~E-710~~, S-4187 FCC Polymer-~~E-781~~, S-4191 SRU-~~(Alkane) E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	<u>Total Suspended Particulate (TSP) Concentration Limits</u> Particulate Weight Limitation	N	
6-1-310.3	<u>TSP for Heat Transfer Operations</u>	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
<u>BAAQMD Regulation 11 Rule 10</u>	<u>Hexavalent Chromium and Total Hydrocarbon Emissions From Petroleum Refinery Cooling Towers (12/19/18)</u>		
<u>11-10-101</u>	<u>Reduce total hydrocarbon emissions from cooling towers at petroleum refineries</u>	N	
<u>11-10-104</u>	<u>Limited Exemption, Continuous Hydrocarbon Analyzers</u>	N	
<u>11-10-107</u>	<u>Limited Exemption, Cooling Towers Servicing Hydrogen Production</u> (-applies to S-4465)	N	
<u>11-10-301</u>	<u>Hexavalent Chromium Removal</u>	N	
<u>11-10-304</u>	<u>Total Hydrocarbon Leak Monitoring Requirement</u>	N	
<u>11-10-305</u>	<u>Leak Action Requirement—</u>	N	
<u>11-10-401</u>	<u>Petroleum Refinery Cooling Tower Reporting Requirements: When the sampling of cooling tower water exceeds the applicable leak action level, the cooling tower owner/operator shall perform the specified actions</u>	N	

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3-4~~Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU (~~Alkane~~) ~~E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11-10-504	Operating records – retain records of the results of all sampling and/or monitoring conducted and other required data for at least five years from the date of entry; if requesting exemption, must maintain records to prove exemption	N	
NESHAP 40 CFR 63 Subpart A	MACT General Provisions (06/25/13)		
63.1	Applicability	Y	
63.2	Definitions: If same term is defined in Subparts A and CC, it shall have the meaning in Subpart CC	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(a)	--Applicability	Y	
63.6(e)(iii)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional)	Y	
63.6(i)	Extension of compliance with emission standards	Y	
63.6(j)	Exemption from compliance with emission standards	Y	
63.8(b)	Conduct of monitoring	Y	
63.8(f)	Use of alternative monitoring method	Y	
63.9	Notifications	Y	
63.9(a)	--Applicability and general information	Y	
63.9(b)	--Initial notifications	Y	
63.9(c)	--Request for extension of compliance	Y	
63.9(i)	--Adjustment to time periods or postmark deadlines for submittal	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	-- Applicability and general information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)(xiv)	--Documentation supporting notifications required under 63.9	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3-4~~Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU (~~Alkane~~) ~~E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(d)	<u>General Reporting Requirements</u>	Y	
63.10(d)(1)	<u>--Submit report in accordance with the reporting requirements in Subpart CC</u>	Y	
63.10(d)(4)	<u>--Progress reports</u>	Y	
63.10(f)	<u>Waiver of recordkeeping or reporting requirements</u>	Y	
<u>NESHAP 40 CFR 63 Subpart CC</u>	<u>NESHAP for Petroleum Refineries (07/13/2016)</u>		
63.640(c)(8)	<u>Applicability and Designation of Affected Source--Affected source comprises all heat exchange systems</u>	Y	
63.640(h)	<u>Compliance date – Existing sources achieve compliance by date specified in Table 11 (Item 3.v)</u>	Y	
63.654	<u>Heat exchange systems</u>	Y	
63.654(a)	<u>Heat exchange systems –Compliance requirements</u>	Y	
63.654(c)	<u>Heat exchange systems --Monitoring to identify leaks of total strippable VOC</u>	Y	
63.654(c)(1)	<u>Heat exchange systems –For closed-loop recirculation heat exchange systems at an existing source, collect and analyze a sample from each location(s) described in paragraph (c)(1)(i) or (c)(1)(ii):</u>	Y	
63.654(c)(1)(i)	<u>--Each cooling tower return line or any representative riser within the cooling tower prior to exposure to air for each heat exchange system; or</u>	Y	
63.654(c)(1)(ii)	<u>--Selected heat exchanger exit line(s) so that each heat exchanger or group of exchangers within a system is covered</u>	Y	
63.654(c)(3)	<u>Heat exchange systems –Determine the total strippable hydrocarbon concentration (in ppmv as methane) at each monitoring location using the Modified El Paso Method</u>	Y	
63.654(c)(4)	<u>Heat exchange systems –Monitoring frequency and leak action levels for existing sources. Comply with the monitoring frequency in paragraph (c)(4)(i) or (ii). For each affected heat exchange system, one monitoring alternative must be applied at all times. Notification 30 days in advance is required prior to a change in the monitoring frequency. All leaks identified prior to changing alternatives must be repaired.</u>	Y	
63.654(c)(4)(i)	<u>Heat exchange systems for existing sources –Monitor monthly using a leak action level defined as total strippable hydrocarbon concentration (as methane) in the stripping gas of 6.2 ppmv; or</u>	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3-4~~Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU (~~Alkane~~) ~~E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(c)(4)(ii)	Heat exchange systems for existing sources –Monitor quarterly using a leak action level defined as total strippable hydrocarbon concentration (as methane) in the stripping gas of 3.1 ppmv unless repair is delayed as allowed by paragraph (f). If a repair is delayed as provided in paragraph (f), monitor monthly.	Y	
63.654(c)(5)	Heat exchange systems –Monitoring frequency and leak action levels for new sources. Monitor monthly using a leak action level defined as total strippable hydrocarbon concentration (as methane) in the stripping gas of 3.1 ppmv.	Y	
63.654(c)(6)(ii)	Heat exchange systems –A leak is detected if a measurement value taken from a location specified in (c)(1)(i) or (ii) equals or exceeds the leak action level	Y	
63.654(d)	Heat exchange systems –If a leak is detected, it must be repaired to reduce the measured concentration to below the action level as soon as possible, but no later than 45 days after being identified, except as allowed in paragraphs (e) and (f). Repair includes re-monitoring at the monitoring location where the leak was identified to verify concentration is below the action level. Actions that can be taken to achieve repair include but are not limited to those identified in paragraphs (d)(1) through (d)(5).	Y	
63.654(e)	Heat exchange systems --Additional monitoring upon leak detection may be conducted for each heat exchanger or group of exchangers as specified by (c)(1)(ii). If no leaks are detected by additional monitoring, the heat exchange system is considered to meet the repair requirements through re-monitoring as allowed by (d)	Y	
63.654(f)	Heat exchange systems –Delay of repair for heat exchange system leaks allowed for conditions specified in (f)(1) or (f)(2) and if the leak is less than the delay of repair action level specified in (f)(3). A delay of repair must be identified as soon as practicable, but no later than 45 days after first identifying the leak	Y	
63.654(f)(1)	--If the repair is technically infeasible without a shutdown and the concentration remains below the delay of repair action level for all monthly monitoring periods during the delay of repair, the repair may be delayed until the next scheduled shutdown. If during subsequent monitoring, the delay of repair action level is exceeded, the leak must be repaired within 30 days of the monitoring event when the leak was equal to or above the delay of repair action level	Y	
63.654(f)(2)	--If it can be demonstrated that the necessary equipment, parts, or personnel are not available and the concentration remains below the delay of repair action level for all monthly monitoring periods during the delay of repair, the repair may be delayed for a maximum of 120 calendar days. If during subsequent monitoring, the delay of repair action level is exceeded, the leak must be repaired within 30 days of the monitoring event when the leak was equal to or above the delay of repair action level	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3~~⁴Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU (~~Alkane~~) ~~E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(f)(3)(ii)	--The delay of repair action level is equal to or greater than 62 ppmv as identified by a sample taken from a location specified by (c)(1)(i) or (ii)	Y	
63.654(g)	Heat exchange systems --Records required for delay of repair	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(e)	Reporting and Recordkeeping Requirements—submit the reports listed in (e)(1) through (3), and keep records as described in paragraph (i)	Y	
63.655(e)(1)	Reporting and Recordkeeping Requirements—A Notification of Compliance Status report as described in paragraph (f)	Y	
63.655(e)(2)	Reporting and Recordkeeping Requirements—Periodic Reports as described in paragraph (g)	Y	
63.655(e)(3)	Reporting and Recordkeeping Requirements—Other reports as described in paragraph (h)	Y	
63.655(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report submittal requirements – submit NOCS within 150 days of compliance dates in 63.640(h)	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements - contents	Y	
63.655(f)(1)(vi)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements – contents for heat exchange systems	Y	
63.655(g)	Reporting and Recordkeeping Requirements--Periodic report submittal requirements	Y	
63.655(g)(9)	Reporting and Recordkeeping Requirements—Periodic report contents for heat exchange systems	Y	
63.655(h)	Reporting and Recordkeeping Requirements—Other Reports	Y	
63.655(h)(7)	Reporting and Recordkeeping Requirements—For heat exchange systems at an existing source, notification is required at least 30 calendar days prior to changing from one of the monitoring options specified in 63.654(c)(4) to the other	Y	
63.655(i)	Reporting and Recordkeeping Requirements—Recordkeeping	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements—Recordkeeping for heat exchange systems	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements---Recordkeeping for required reports	Y	
Condition #14596	Applies to S-6051		

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3-4~~Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU ~~(Alkane) E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Organic compound emissions from S-6051 shall not exceed 30.2 lb/day, averaged over any consecutive 12-month period.	Y	
Part 2	Total dissolved solids in the S-6051 basin shall not exceed 2000 parts per million (wt), average over any consecutive 30-day period.	Y	
Part 3	Owner /operator to install a District-approved continuous hydrocarbon analyzer and recorder to determine the hydrocarbon concentration in the cooling water. Establish an Action Level for hydrocarbon concentration and an alarm when readings exceed this value	Y	
Part 4	When an alarm in Part 3 is triggered, check S-6051 vapor space daily with District-approved LEL meter	Y	
Part 5	Respond to heat exchanger leaks in accordance with methods and time limits established in Part 5.	Y	
Part 6	Monthly test for TDS and records are required	Y	
Part 7	Owner/ operator shall use volatile organic concentration data from the continuous hydrocarbon analyzer (part 3) and the flowrate data from a district-approved flowmeters installed at district-approved sample port locations. Hydrocarbon analyzer concentration data, flowrate data, and daily emissions estimates records are required	Y	
Part 8	Hydrocarbon analyzer data, flowmeter data, daily emissions data, date and time of all alarms, a summary of the baseline and action levels data, a description of findings and actions taken for each incident above the Action level, and all LEL measurements records are required.	Y	
<u>Condition #24136</u>	<u>Applies to S-4465</u>		
<u>Part 21</u>	<u>Daily throughput and records</u>	<u>N</u>	<u>Post Modernizatio</u> <u>n</u>
<u>Part 22</u>	<u>Flow determination within 60 days of initial startup</u>	<u>N</u>	<u>Post Modernizatio</u> <u>n</u>
<u>Part 23</u>	<u>Monthly test for TDS and records; PM10 emissions from cooling tower drift limit</u>	<u>N</u>	<u>Post Modernizatio</u> <u>n</u>
<u>Part 24</u>	<u>Do not emit VOC except as allowed in part 25</u>	<u>N</u>	<u>Post Modernizatio</u> <u>n</u>
<u>Part 25</u>	<u>Daily hydrocarbon leak inspection and repair; POC emissions limit and POC emissions reduction credits (ERCs) offset requirements</u>	<u>Y</u>	<u>Post Modernizatio</u> <u>n</u>

IV. Source-Specific Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #~~3~~4Cat, S-4172 Isomax ~~E-261F~~, S-4173 FCC ~~E-710~~, S-4187 FCC Polymer ~~E-781~~, S-4191 SRU (~~Alkane~~) ~~E-2900~~, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower~~CWT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 37	Recordkeeping	N	Post Modernization #

Table IV.C.~~1.2.2~~1 Process Units (FCC)

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/08<u>5/4/11</u>)		
1-301	Public Nuisance Prohibition	N	
1-501	Sampling Facilities	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO2 and opacity monitors at catalyst regenerators of FCC units	Y	
1-521	Monitoring	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of plans and specifications	Y	
1-522.2	Scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	Reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	Emission limit exceedance reporting requirements	N	
1-522.8	Monitoring data submittal requirements	Y	
1-522.9	Recordkeeping requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.10	Monitors	Y	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/986/28/99)	Y	
1-301	Public Nuisance Prohibition	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation (where opacity monitor is required by the District)	Y	
6-1-304	Tube Cleaning	Y	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particulate Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
6-1-311	General Operations (process weight rate limitation) TSP Weight Limits	Y	
6-1-401	Appearance of Emissions	Y	
6-1-501	Sampling Facilities and Instruments required (where opacity monitor is required by the District)	Y	
6-1-502	Data, Records and Reporting (where opacity monitor is required by the District)	Y	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation (where opacity monitor is required by the District)	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments required (where opacity monitor is required by the District)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-502	Data, Records and Reporting (where opacity monitor is required by the District)	Y	
BAAQMD Regulation 6, Rule 5	Particulate Emissions from Refinery Fluidized Catalytic Cracking Units (12/19/18)		
6-5-101	Limits emissions of condensable particulate matter emissions from petroleum refinery fluidized catalytic cracking units as well as emissions of precursors of secondary particulate matter	<u>N</u>	
6-5-112	Limited Exemption, Emissions during Startup or Shutdown Periods	<u>N</u>	
6-5-115	Limited Exemption, Ammonia Optimization	<u>N</u>	
6-5-403	Ammonia Optimization: As an alternative to complying with 6-5-301, owner/operator may instead establish an enforceable ammonia emission limit for the FCCU that results in the minimization of total FCCU PM2.5 emissions	<u>N</u>	
6-5-501	Ammonia Monitoring	<u>N</u>	
BAAQMD Regulation 8, Rule 9	Vacuum Producing Systems (07/20/83)		
8-9-301	Vacuum Producing Systems	<u>Y</u>	
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	<u>N</u>	
8-10-302	Opening of Process Vessels	<u>N</u>	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	<u>N</u>	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	<u>N</u>	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	<u>N</u>	
8-10-501	Monitoring prior to and during process vessel opening	<u>Y</u>	
8-10-502	Concentration measurement using EPA Method 21	<u>Y</u>	
8-10-503	Recordkeeping	<u>N</u>	
8-10-601	Monitoring Procedures	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

**FCC
 S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static
 Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP</u> Regulation 8, Rule 10	<u>Organic Compound – Process Vessel Depressurization (10/03/84)</u>		
8-10-301	<u>Process Vessel Depressurizing.</u>	<u>Y</u>	
8-10-301.1	<u>_recovery to the fuel gas system</u>	<u>Y</u>	
8-10-301.2	<u>_combustion at a firebox or incinerator</u>	<u>Y</u>	
8-10-301.3	<u>_combustion at a flare</u>	<u>Y</u>	
8-10-301.4	<u>_containment such that emissions to atmosphere do not occur</u>	<u>Y</u>	
8-10-401	<u>Turnaround Records.</u>	<u>Y</u>	
8-10-401.1	<u>_date of depressurization event</u>	<u>Y</u>	
8-10-401.2	<u>_approximate vessel hydrocarbon concentration when emissions to atmosphere begin</u>	<u>Y</u>	
8-10-401.3	<u>_approximate quantity of POC emissions to atmosphere</u>	<u>Y</u>	
<u>BAAQMD</u> Regulation 8, Rule 18	<u>Organic Compounds – Equipment Leaks (12/16/15)</u>		
8-18-110	<u>Exemption, Controlled Seal Systems and Pressure Relief Devices</u>	<u>N</u>	
8-18-113	<u>Limited Exemption, Initial Boiling Point</u>	<u>N</u>	
8-18-115	<u>Limited Exemption, Storage Tanks</u>	<u>Y</u>	
8-18-116	<u>Limited Exemption, Vacuum Service</u>	<u>Y</u>	
8-18-119	<u>Limited Exemption, Open-ended Valve or Line</u>	<u>N</u>	
8-18-120	<u>Limited Exemption, Non-repairable Equipment</u>	<u>N</u>	
8-18-301	<u>General</u>	<u>Y</u>	
8-18-302	<u>Valves</u>	<u>N</u>	
8-18-303	<u>Pumps and Compressors</u>	<u>N</u>	
8-18-304	<u>Connections</u>	<u>N</u>	
8-18-305	<u>Pressure Relief Devices</u>	<u>N</u>	
8-18-306	<u>Non-repairable Equipment</u>	<u>N</u>	
8-18-307	<u>Liquid Leak</u>	<u>Y</u>	
8-18-308	<u>Alternative Compliance</u>	<u>Y</u>	
8-18-309	<u>Open-ended Valve or Line</u>	<u>N</u>	
8-18-310	<u>Recurrent Leaks</u>	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-311	Mass Emissions	<u>N</u>	
8-18-401	Inspection	<u>N</u>	
8-18-402	Identification	<u>N</u>	
8-18-403	Visual Inspection Schedule	<u>N</u>	
8-18-404	Alternative Inspection Schedule	<u>N</u>	
8-18-405	Alternative Emission Reduction Plan	<u>Y</u>	
8-18-406	Interim Compliance	<u>Y</u>	
8-18-407	Recurrent Leak Schedule	<u>N</u>	
8-18-501	Portable Hydrocarbon Detector	<u>N</u>	
8-18-502	Records	<u>N</u>	
8-18-503	Reports	<u>Y</u>	
<u>SIP</u> <u>Regulation 8, Rule 18</u>	<u>Organic Compounds – Equipment Leaks (06/05/03)</u>		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	<u>Y</u>	
8-18-113	Limited Exemption, Initial Boiling Point	<u>Y</u>	
8-18-302	Valves	<u>Y</u>	
8-18-303	Pumps and Compressors	<u>Y</u>	
8-18-304	Connections	<u>Y</u>	
8-18-305	Pressure Relief Devices	<u>Y</u>	
8-18-306	Non-repairable Equipment	<u>Y</u>	
8-18-401	Inspection	<u>Y</u>	
8-18-402	Identification	<u>Y</u>	
8-18-403	Visual Inspection Schedule	<u>Y</u>	
8-18-404	Alternate Inspection Schedule	<u>Y</u>	
8-18-501	Portable Hydrocarbon Detector	<u>Y</u>	
8-18-502	Records	<u>Y</u>	
<u>BAAQMD</u> <u>Regulation 8, Rule 28</u>	<u>Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05)</u>		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	<u>N</u>	
8-28-304	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>Y</u>	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>N</u>	
8-28-304.2	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>Y</u>	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	<u>N</u>	
8-28-402	Inspection	<u>N</u>	
8-28-404	Identification	<u>N</u>	
8-28-405	Process Safety Requirements	<u>N</u>	
8-28-502	Records	<u>N</u>	
8-28-503	Monitoring	<u>N</u>	
<u>SIP</u> <u>Regulation 8,</u> <u>Rule 28</u>	<u>Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)</u>		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	<u>Y</u>	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	<u>Y</u>	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>Y</u>	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	<u>Y</u>	
8-28-402	Inspection	<u>Y</u>	
8-28-403	Records	<u>Y</u>	
8-28-404	Identification	<u>Y</u>	
8-28-405	Prevention Measures Procedures	<u>Y</u>	
<u>BAAQMD</u> <u>Regulation 9</u> <u>Rule 1</u>	<u>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</u>		
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-310.1	Catalytic cracking unit emission limitation	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	<u>Y</u>	
9-1-313.1	Crude oil sulfur content does not exceed 0.10 percent by weight, or	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/926/8/99) [only provisions which are different than current BAAQMD regulation are listed]	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams	Y	
<u>NSPS 40 CFR 60 Subpart A</u>	<u>General Provisions (02/27/14)</u>		
60.7	<u>Notification and record keeping.</u>	<u>Y</u>	
60.8	<u>Performance tests.</u>	<u>Y</u>	
60.11	<u>Compliance with standards and maintenance requirements.</u>	<u>Y</u>	
60.11(a)	<u>Performance test</u>	<u>Y</u>	
60.11(b)	<u>Compliance with opacity standards</u>	<u>Y</u>	
60.11(c)	<u>Opacity standards during SU/SD/Malfunction</u>	<u>Y</u>	
60.11(d)	<u>Good air pollution control practice for minimizing emissions</u>	<u>Y</u>	
60.11(e)	<u>Opacity related requirements</u>	<u>Y</u>	
60.11(f)	<u>Special provisions</u>	<u>Y</u>	
60.11(g)	<u>Any credible evidence or information</u>	<u>Y</u>	
60.12	<u>Circumvention.</u>	<u>Y</u>	
60.13	<u>Monitoring requirements.</u>	<u>Y</u>	
60.13(i)	<u>Alternatives to any monitoring procedures or requirements</u>	<u>Y</u>	
60.19	<u>General notification and reporting requirements.</u>	<u>Y</u>	
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (6/24/08 12/1/15)	Y	
60.102	Standard for Particulate Matter	Y	
60.102(a)(1)	Limit on particulate matter from catalyst regenerator	Y	
60.102(a)(2)	Limit on opacity of gases from catalyst regenerator	Y	
60.103	Standard for Carbon Monoxide	Y	
60.103(a)	Limit on carbon monoxide emissions from catalyst regenerator	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

**FCC
 S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static
 Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104	Standard for Sulfur Oxides	Y	
60.104(b)(2)	Limit on sulfur oxide emissions from catalyst regenerator without add-on control device, OR	Y	
60.104(b)(3)	Limit on sulfur content of fluid catalytic cracking unit feed	Y	
60.104(c)	Compliance determined daily on rolling 7-day basis	Y	
60.104I	7-day rolling average	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(1)	Continuous opacity monitoring requirement for catalyst regenerator emissions to atmosphere	Y	
60.105(a)(2)	Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere	Y	
60.105(a)(2) (i)	Requirement on the span of the CO monitoring device	Y	
60.105(a)(2) (ii)	Exemption from continuous CO concentration emission monitoring	Y	
60.105 (c)	Recording requirement for coke burn-off rate	Y	
60.105 (e)(1)	Opacity excesses	Y	
60.105 (e)(2)	Carbon monoxide excesses	Y	
60.106	Test methods and procedures	Y	
60.106(b)(3)	Coke burn rate equation	Y	
60.106(4)(12)	Alternative Method for Determining Compliance		
60.107	Reporting and recordkeeping requirements.	Y	
60.108	Performance test and compliance provisions.	Y	
NESHAP 40 CFR Part 63 Subpart A	MACT General Provisions (06/25/13)		
63.4	Prohibited Activities and Circumvention	<u>Y</u>	
63.6	Compliance with Standards and Maintenance Requirements	<u>Y</u>	
63.6(e)	Operation and Maintenance Requirements	<u>Y</u>	
63.6(f)	Compliance with Nonopacity Emission Standards	<u>Y</u>	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional)	<u>Y</u>	
63.6(h)	Compliance with Opacity and Visible Emission Standards	<u>Y</u>	
63.7	Performance Tests	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.8	Monitoring	<u>Y</u>	
63.9	Notifications	<u>Y</u>	
63.9(e)	Notification of Performance Test	<u>Y</u>	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	<u>Y</u>	
63.9(h)	Notification of Compliance Status	<u>Y</u>	
63.9(j)	Change in information	<u>Y</u>	
63.10	Recordkeeping and Reporting Requirements	<u>Y</u>	
63.10(a)	General Information	<u>Y</u>	
63.10(b)	General Recordkeeping Requirements	<u>Y</u>	
63.10(b)(2)	Records to be maintained	<u>Y</u>	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	<u>Y</u>	
63.10(d)	General Reporting Requirements	<u>Y</u>	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	<u>Y</u>	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	<u>Y</u>	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	<u>Y</u>	
40 CFR 63 Subpart UUU	National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/20/06/13/16)	Y	
63.1561	Subject to this subpart	Y	
63.1562	Parts of plants that are covered (including exemptions)	Y	
63.1563	When to comply	Y	
63.1564	Requirement for metal-hap metal HAP emissions for catalytic cracking units	Y	
63.1564(a)	Emission limitations and work practice standards that must be met for metal HAP emissions	<u>Y</u>	
63.1564(a)(1)(i)	Catalytic cracking unit is subject to must comply with the NSPS for PM in 60.102 (Option 1a)	Y	
63.1564(a)(2)	Must comply with each applicable operating limit in Table 2 of 40 CFR 63, Subpart UUU	<u>Y</u>	
63.1564(a)(3)	Must prepare Operation, maintenance, and monitoring plan (OMMP) in accordance to the requirements in 63.1574(f) and operate at all times according to procedures in OMMP.	Y	
63.1564(a)(4)	Emission and operating limit does not apply during pre-approved planned mt maintenance	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1564(a)(5)	On or before August 1, 2017, must comply with one of two options* in 63.1564(a)(5)(i) or (ii) during periods of startup, shutdown, or hot standby. *Chevron can comply with either option for metal HAP emissions during periods of startup, shutdown, or hot standby	<u>Y</u>	
63.1564(b)	Must demonstrate initial compliance with emission limitations and work practice standards as follows:	<u>Y</u>	
63.1564(b)(1)	Must install, maintain, and operate Continuous continuous monitoring systems requirement (COMS required) according to the requirements in §63.1572 and Table 3 of 40 CFR 63, Subpart UUU	Y	
63.1564(b)(2)	Must conduct a performance test according to §63.1571 and under conditions specified in Table 4 of 40 CFR 63, Subpart UUU	<u>Y</u>	
63.1564(b)(3)	Must establish each applicable site-specific operating limit in Table 2 according to procedures in Table 4 of 40 CFR 63, Subpart UUU	<u>Y</u>	
63.1564(b)(5)	Initial compliance per table 5 (no new test if unit is NSPS but must certify)	Y	
63.1564(b)(6)	Submit OMMP to permit authority with NOCS	Y	
63.1564(b)(7)	Submit NOCS	Y	
63.1564(c)	Must demonstrate continuous compliance with emission limitations and work practice standards as follows:	<u>Y</u>	
63.1564(c)(1)	Demonstrate continuous compliance with each applicable emission limitation in Tables 1 and 2 according to methods specified in Tables 6 and 7 of 40 CFR 63, Subpart UUU.	Y	
63.1564(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1564(a)(3) by Maintain maintaining records documenting conformance with procedures in compliance with OMMP	Y	
63.1565	Emission limitations and work practice standards that must be met for organic HAP emissions Requirements for organic hap emissions form catalytic cracking units	Y	
63.1565(a)(1)	Catalytic cracking unit must meet emission limit in is subject to NSPS for CO in 60.103	Y	
63.1565(a)(2)	Must comply with each site-specific operating limit in Table 9 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1565(a)(3)	Operation, maintenance, and monitoring plan (OMMP)	Y	
63.1565(a)(4)	Emission and operating limit does not apply during pre-approved planned maintenancemtee	Y	
63.1565(a)(5)	On or before August 1, 2017, must comply with one of two options* in 63.1565(a)(5)(i) or (ii) during periods of startup, shutdown, or hot standby. *Chevron can comply with either option for organic HAP emissions during periods of startup, shutdown, or hot standby	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1565(b)	Must demonstrate initial compliance with emission limitations and work practice standards as follows:	<u>Y</u>	
63.1565(b)(1)	Must install, maintain, and operate continuous continuous monitoring systems requirement (CO CEMS required) according to the requirements in §63.1572 and Table 10 of 40 CFR 63, Subpart UUU	Y	
63.1565(b)(1)(i)	CO CEMS* not required, upon written request and exemption granted by District , if 30 days average <50 ppm CO *Chevron's Consent Decree # C 03-04650 CRB; "Part 29: Demonstrating Compliance with CO emission limits" on page 40 required Chevron to install CO CEMS on/before June 30, 2004. Therefore, Chevron did not request the CO CEMS exemption from the District.	<u>Y</u>	
63.1565(b)(4)	Must demonstrate initial compliance with each emission limitation according to per Table 12 (no new test if unit is NSPS, but must certify) of 40 CFR 63, Subpart UUU	Y	
63.1565(b)(5)	Must demonstrate initial compliance with work practice standards in 63.1565(a)(3) by submitting OMMP to BAAQMD as part of NOCS according to §63.1574, Submit OMMP to permit authority with NOCS	Y	
63.1565(b)(6)	Must submit NOCS containing results of the initial compliance demonstration according to requirements in §63.1574 Submit NOCS	Y	
63.1565(c)	Must demonstrate continuous compliance with emission limitations and work practice standards as follows:	<u>Y</u>	
63.1565(c)(1)	Demonstrate continuous compliance per tables 13 and 14 with each applicable emission limitation in Tables 8 and 9 according to methods specified in Tables 13 and 14 of 40 CFR 63, Subpart UUU.	Y	
63.1565(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1565(a)(3) by complying with procedures in OMMP Comply with OMMP procedures	Y	
63.1569	Requirements for HAP emissions from bypass lines* *Chevron has clarified there are no bypass lines at the FCC	Y	
63.1569(a)	Work practice standards that must be met for HAP emissions	<u>Y</u>	
63.1569(a)(1)	Must meet each work practice standard in Table 36 of 40 CFR 63, Subpart UUU, and choose from Options 1 through 4	Y	
63.1569(a)(3)	Must prepare Operation, maintenance, and monitoring plan (OMMP) in accordance to the requirements in 63.1574(i) and operate at all times according to procedures in OMMP.	Y	
63.1569(b)	Must demonstrate initial compliance with work practice standards as follows:	<u>Y</u>	
63.1569(b)(1)	If Option 1 from 63.1569(a)(1) is elected, conduct each performance for bypass line per requirements in 63.1571 and conditions specified in Table 37 of 40 CFR 63, Subpart UUU.	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC
**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static
 Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(b)(2)	Demonstrate initial compliance with each applicable work practice standard in Table 36 per Table 38 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1569(b)(3)	Demonstrate initial compliance with work practice standard in 63.1569(a)(3) by submitting OMMP to BAAQMD as part of NOCS.	<u>Y</u>	
63.1569(b)(4)	Submit NOCS containing results of the initial compliance demonstration per 63.1574.	<u>Y</u>	
63.1569(c)	Must demonstrate continuous compliance with work practice standards as follows:	<u>Y</u>	
63.1569(c)(1)	Demonstrate continuous compliance with each applicable work practice standard in Table 36 per Table 39 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1569(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1569(a)(3) by complying with procedures in OMMP.	<u>Y</u>	
63.1570	General requirements	Y	
63.1570(d)	Develop & implement a SSMP	<u>Y</u>	
63.1570(f)	Report all instances not in compliance with limits or work practice standards	<u>Y</u>	
63.1571	Initial performance test and other initial compliance demonstration requirements	Y	
63.1572	Monitoring, installation, operation, & maintenance requirements	Y	
63.1573	Monitoring alternatives	Y	
63.1574	Notification requirements	Y	
63.1575	Reporting requirements	Y	
63.1576	Recordkeeping requirements	Y	
63.1577	General provision applicability	Y	
Condition #11066	Permit condition parts are listed below:	Y	
Part 1	FCC Feedrate [applicable to S-4285]	Y	
Part 2	POC & PM-10 Source Test [applicable to S-4285]	Y	
Part 3	Criteria Pollutant TPY limits [applicable to S-4285]	Y	
Part 4a and 4b	SO2 limits [applicable to S-4285]	Y	
Part 5a and 5b	NOx limits [applicable to S-4285]	Y	
Part 6	CO limits [applicable to S-4285]	Y	
Part 7	TSP limit/ESP energized [applicable to S-4285 and A0014]	Y	
Part 7a1	ESP rappers inspection & repair [applicable to S-4285 and A0014]	Y	
Part 7a3	Transformer Rectifier (TR) readings [applicable to S-4285 and A0014]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units
 Source-specific Applicable Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7a4	ESP Inlet Temperature [applicable to S-4285 and A0014]	Y	
Part 7a5	TR Limits [applicable to S-4285 and A0014]	Y	
Part 7b	TSP Source Testing [applicable to S-4285 and A0014]	Y	
Part 7c	District approved monthly log [applicable to S-4285 and A0014]	Y	
Part 9	SOx, NOx, & CO CEM required [applicable to S-4285]	Y	
Part 10a	9.8 lb SOx/1000 lb coke burned limit [applicable to S-4285] (source follows this now) OR	Y	
Part 10b	Feed < 0.3 wt. Sulfur [applicable to S-4285] (source does not follow this now, but has option to)	Y	
Part 11	Recordkeeping: Daily log [applicable to S-4285]	Y	
Part 14	Start-Up 7-day grace period [applicable to S-4285]	Y	
Part 15	NH3 Injection Rate Upper Limit [applicable to S-4285]	N	
Condition #18655	Permit condition parts are listed below:	Y	
Part 2	Source test requirement for compliance with 6-330	Y	

Table IV.C.3.1 Process Units (Miscellaneous Process Units)

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 9	Vacuum Producing Systems (07/20/83)		
8-9-301	Vacuum Producing Systems	<u>Y</u>	
BAAQMD Regulation 8, Rule 10	<u>Organic Compound – Process Vessel Depressurization (1/21/2004)</u>		
8-10-301	Depressurization Control Options	<u>N</u>	
8-10-302	Opening of Process Vessels	<u>N</u>	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	<u>N</u>	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	<u>N</u>	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	<u>N</u>	
8-10-501	Monitoring prior to and during process vessel opening	<u>Y</u>	
8-10-502	Concentration measurement using EPA Method 21	<u>Y</u>	
8-10-503	Recordkeeping	<u>N</u>	
8-10-601	Monitoring Procedures	<u>N</u>	
SIP Regulation 8, Rule 10	<u>Organic Compound – Process Vessel Depressurization (10/03/84)</u>		
8-10-301	Process Vessel Depressurizing	<u>Y</u>	
8-10-301.1	__recovery to the fuel gas system	<u>Y</u>	
8-10-301.2	__combustion at a firebox or incinerator	<u>Y</u>	
8-10-301.3	__combustion at a flare	<u>Y</u>	
8-10-301.4	__containment such that emissions to atmosphere do not occur	<u>Y</u>	
8-10-401	Turnaround Records.	<u>Y</u>	
8-10-401.1	__date of depressurization event	<u>Y</u>	
8-10-401.2	__approximate vessel hydrocarbon concentration when emissions to atmosphere begin	<u>Y</u>	
8-10-401.3	__approximate quantity of POC emissions to atmosphere	<u>Y</u>	
BAAQMD Regulation 8, Rule 18	<u>Organic Compounds – Equipment Leaks (12/16/15)</u>		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	<u>N</u>	
8-18-113	Limited Exemption, Initial Boiling Point < 302 degrees F	<u>N</u>	
8-18-115	Limited Exemption, Storage Tanks subject to 8-5	<u>Y</u>	
8-18-116	Limited Exemption, Vacuum Service	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-119	Limited Exemption, Open-ended Valve or Line	<u>N</u>	
8-18-120	Limited Exemption, Non-repairable Equipment	<u>N</u>	
8-18-301	General	<u>Y</u>	
8-18-302	Valves	<u>N</u>	
8-18-303	Pumps and Compressors	<u>N</u>	
8-18-304	Connections	<u>N</u>	
8-18-305	Pressure Relief Devices	<u>N</u>	
8-18-306	Non-repairable Equipment	<u>N</u>	
8-18-307	Liquid Leak	<u>Y</u>	
8-18-308	Alternative Compliance	<u>Y</u>	
8-18-309	Open-ended Valve or Line	<u>N</u>	
8-18-310	Recurrent Leaks	<u>N</u>	
8-18-311	Mass Emissions	<u>N</u>	
8-18-401	Inspection	<u>N</u>	
8-18-402	Identification	<u>N</u>	
8-18-403	Visual Inspection Schedule	<u>N</u>	
8-18-404	Alternative Inspection Schedule	<u>N</u>	
8-18-405	Alternative Emission Reduction Plan	<u>Y</u>	
8-18-406	Interim Compliance	<u>Y</u>	
8-18-407	Recurrent Leak Schedule	<u>N</u>	
8-18-501	Portable Hydrocarbon Detector	<u>N</u>	
8-18-502	Records	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-503	Reports	<u>N</u>	
SIP Regulation 8, Rule 18	Organic Compounds – Equipment Leaks (06/05/03)		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	<u>Y</u>	
8-18-113	Limited Exemption, Initial Boiling Point	<u>Y</u>	
8-18-302	Valves	<u>Y</u>	
8-18-303	Pumps and Compressors	<u>Y</u>	
8-18-304	Connections	<u>Y</u>	
8-18-305	Pressure Relief Devices	<u>Y</u>	
8-18-306	Non-repairable Equipment	<u>Y</u>	
8-18-401	Inspection	<u>Y</u>	
8-18-402	Identification	<u>Y</u>	
8-18-403	Visual Inspection Schedule	<u>Y</u>	
8-18-404	Alternate Inspection Schedule	<u>Y</u>	
8-18-501	Portable Hydrocarbon Detector	<u>Y</u>	
8-18-502	Records	<u>Y</u>	
BAAQMD Regulation 8, Rule 28	Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05)		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	<u>N</u>	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	<u>N</u>	
8-28-304	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries – 90 day requirement	<u>N</u>	
8-28-304.2	Repeat Release Pressure Relief Devices at Petroleum Refineries – 1 year requirement	<u>Y</u>	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	<u>N</u>	
8-28-402	Inspection	<u>N</u>	
8-28-404	Identification	<u>N</u>	
8-28-405	Process Safety Requirements	<u>N</u>	
8-28-502	Records	<u>N</u>	
8-28-503	Monitoring	<u>N</u>	
SIP Regulation 8, Rule 28	Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	<u>Y</u>	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	<u>Y</u>	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	<u>Y</u>	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	<u>Y</u>	
8-28-402	Inspection	<u>Y</u>	
8-28-403	Records	<u>Y</u>	
8-28-404	Identification	<u>Y</u>	
8-28-405	Prevention Measures Procedures	<u>Y</u>	
NESHAP 40 CFR Part 63 Subpart A	MACT General Provisions (6/25/13)		

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional)	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
40 CFR 63	National Emission Standards for Hazardous Pollutants for Petroleum	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart UUU	Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/20/06/13/16) (applies to S-4237, S-4283 only)		
63.1561	Subject to this subpart (applies to S-4237, S-4283 only)	Y	
63.1562	Parts of plants that are covered (including exemptions) (applies to S-4237, S-4283 only)	Y	
63.1562(f)(5)	Subpart does not apply to gaseous streams routed to a fuel gas system provided that on and after January 30, 2019, any flares receiving gas from the fuel gas system are subject to 63.670. (Note: CRUs are exempt from organic HAP requirements in §63.1566 because de-pressure and purge gases from the CRUs (S-4237 and 4283) are routed to a fuel gas system. Gases from the fuel gas system are routed to the South Yard relief system consisting of the LSFO (S-6010) and D&R (S-6015) flares. The District granted Chevron an extension until January 30, 2020 for the above flares to come into compliance with the MACT CC flare requirements in §63.670. exempts S-4237 & S-4283 from 63.1566 because these de-pressure & purge to fuel gas)	Y	
63.1563	When to comply (applies to S-4237, S-4283 only)	Y	
63.1566	Emission limitations and work practice standards that must be met for organic HAP emissions	<u>Y</u>	
63.1566(a)(1)	Must meet each applicable emission limitation in Table 15 of 40 CFR 63, Subpart UUU, and choose from Options 1 and 2.	<u>Y</u>	
63.1566(a)(2)	Must comply with each applicable site-specific operating limit in Table 16 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1566(a)(3)	Except as provided in paragraph (a)(4) of 63.1566, the emission limitations in Tables 15 and 16 of 40 CFR 63, Subpart UUU apply to emissions from catalytic reforming unit process vents associated with initial catalyst depressuring and catalyst purging operations that occur prior to the coke burn-off cycle. The emission limitations in Tables 15 and 16 of 40 CFR 63, Subpart UUU do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents.	<u>Y</u>	
63.1566(a)(4)	The emission limitations in Tables 15 and 16 of 40 CFR 63, Subpart UUU do not apply to emissions from process vents during passive depressuring when the	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<p>reactor vent pressure is 5 pounds per square inch gauge (psig) or less or during active depressuring or purging prior to January 30, 2019, when the reactor vent pressure is 5 psig or less.</p> <p>On and after January 30, 2019, the emission limitations in Tables 15 and 16 of 40 CFR 63, Subpart UUU apply to emissions from process vents during active purging operations (when nitrogen or other purge gas is actively introduced to the reactor vessel) or active depressuring (using a vacuum pump, ejector system, or similar device) regardless of the reactor vent pressure.</p>		
63.1566(a)(5)	Must prepare Operation, maintenance, and monitoring plan (OMMP) in accordance to the requirements in 63.1574(f) and operate at all times according to procedures in OMMP.	Y	
63.1566(b)	Must demonstrate initial compliance with the emission limitations and work practice standards as follows:	Y	
63.1566(b)(1)	Must install, operate, and maintain a continuous monitoring system(s) according to the requirements in 63.1572 and Table 17 of 40 CFR 63, Subpart UUU.	Y	
63.1566(b)(2)	Must conduct each performance test for each catalytic reforming unit according to the requirements in 63.1571 and under the conditions specified in Table 18 of 40 CFR 63, Subpart UUU.	Y	
63.1566(b)(3)	Must establish each site-specific applicable operating limit in Table 16 per procedures in Table 18 of 40 CFR 63, Subpart UUU.	Y	
63.1566(b)(4)	Must use the procedures in paragraph (b)(4)(i) or (ii) of 63.1566 to determine initial compliance with the applicable emission limitations in 63.1566(a)(1).	Y	
63.1566(b)(5)	<p>TOC performance test not required if:</p> <p>(i) Emissions vented to a flare as provided in 63.1566(a)(1)(i) (Option 1); or</p> <p>(ii) The TOC percent reduction or concentration limit in 63.1566(a)(1)(ii) (Option 2) selected, and use a boiler or process heater with a design heat input capacity of 44 MW or greater or a boiler or process heater in which all vent streams are introduced into the flame zone.</p>	Y	
63.1566(b)(6)	Must demonstrate initial compliance with each applicable emission limitation in Table 19 of 40 CFR 63, Subpart UUU.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(b)(7)	Must demonstrate initial compliance with the work practice standard in paragraph (a)(5) of 63.1566 by submitting the OMMP to BAAQMD as part of NOCS.	Y	
63.1566(b)(8)	Must submit NOCS containing results of the initial compliance demonstration according to requirements in §63.1574.	Y	
63.1566(c)	Must demonstrate continuous compliance with emission limitations and work practice standards as follows:	Y	
63.1566(c)(1)	Demonstrate continuous compliance with each applicable emission limitation in Tables 15 and 16 according to methods specified in Tables 20 and 21 of 40 CFR 63, Subpart UUU.	Y	
63.1566(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1566(a)(3) by maintaining records documenting conformance with procedures in OMMP	Y	
63.1567	Emission limitations and work practice standards that must be met for inorganic HAP emissions Requirements for inorganic hap emissions from catalytic reforming units (S-4237, S-4283 only).	Y	
63.1567(a)(1)	Must meet each applicable emission limitation in Table 22 of 40 CFR 63, Subpart UUU. If operating a catalytic reforming unit in which different reactors in the catalytic reforming unit are regenerated in separate regeneration systems, then the emission limitations apply to each separate regeneration system. The emission limitations apply to emissions from catalytic reforming unit process vents associated with the coke burn-off and catalyst rejuvenation operations during coke burn-off and catalyst regeneration. Emission limit (S-4237, S-4283 only)	Y	
63.1567(a)(1)(i)	Must elect Option 1: % reduction standard for HCl emissions (S-4237, S-4283 only) or	Y	
63.1567(a)(1)(i)	Must elect Option 2: 30 ppmv dry HCl concentration limit corrected to 3% O2 (S-4237, S-4283 only)	Y	
63.1567(a)(2)	The initial source test at the CRUs established a site specific HCl daily average operating limit of 27 ppmv as measured by colorimetric tube sampling system per Equation 4 in §63.1567 in the catalyst regenerator exhaust gas. Site specific operating limit. Cat regen HCl exhaust gas cone< limit established during performance test (S-4237, S-4283 only)	Y	
63.1567(a)(3)	Must prepare Operation, maintenance, and monitoring plan (OMMP) in	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	accordance to the requirements in 63.1574(f) and operate at all times according to procedures in OMMP. Prepare & operate in accordance with an OMMP (S-4237, S-4283 only)		
63.1567(b)	Must demonstrate initial compliance with the emission limitations and work practice standards as follows:	Y	
63.1567(b)(1)	Must install, operate, and maintain a continuous monitoring system(s) according to the requirements in 63.1572 and Table 24 of 40 CFR 63, Subpart UUU.	Y	
63.1567(b)(2)	Must conduct each performance test for each catalytic reforming unit according to the requirements in 63.1571 and under the conditions specified in Table 25 of 40 CFR 63, Subpart UUU.	Y	
63.1567(b)(3)	Must establish each site-specific applicable operating limit in Table 23 per procedures in Table 25 of 40 CFR 63, Subpart UUU.	Y	
63.1567(b)(4)	Must use the procedures in paragraph (b)(4)(i) or (ii) of 63.1567 to determine initial compliance with the applicable emission limitations in 63.1567(a)(1).	Y	
63.1567(b)(2)	Conduct performance test per table 25, measure HCl in exhaust gas & establish operating limit (S-4237, S-4283 only)	N	
63.1567(b)(3)	Establish site specific operating limit in table 23 using method in table 25 (S-4237, S-4283 only)	N	
63.1567(b)(4)	Demonstrate initial compliance by a performance test (S-4237, S-4283 only)	N	
63.1567(b)(5)	Must demonstrate initial compliance with each applicable emission limitation per Table 26 of 40 CFR 63, Subpart UUU. Submit OMM plan with NOCS (S-4237, S-4283 only)	Y	
63.1567(b)(6)	Must demonstrate initial compliance with the work practice standard in paragraph (a)(3) of 63.1567 by submitting the OMMP to BAAQMD as part of NOCS. Submit NOCS with results of initial compliance demonstration (S-4237, S-4283 only)	Y	
63.1567(b)(7)	Must submit NOCS containing results of the initial compliance demonstration according to requirements in §63.1574.	Y	
63.1567(c)	Must demonstrate continuous compliance with emission limitations and work practice standards as follows:	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(c)(1)	Demonstrate continuous compliance with each applicable emission limitation in Tables 22 and 23 according to methods specified in Tables 27 and 28 of 40 CFR 63, Subpart UUU. Demonstrate continuous compliance per tables 27 & 28, (S-4237, S-4283 only)	Y	
63.1567(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1567(a)(3) by maintaining records documenting conformance with procedures in OMMP. Maintain records to document OMMP plan compliance (S-4237, S-4283 only)	Y	
63.1569	Requirements for HAP emissions from bypass lines (S-4237, S-4283 only)	Y	
63.1569(a)	Work practice standards that must be met for HAP emissions	<u>Y</u>	
63.1569(a)(1)	Must meet each work practice standard in Table 36 of 40 CFR 63, Subpart UUU, and choose from Options 1 through 4	Y	
63.1569(a)(3)	Must prepare Operation, maintenance, and monitoring plan (OMMP) in accordance to the requirements in 63.1574(f) and operate at all times according to procedures in OMMP.	Y	
63.1569(b)	Must demonstrate initial compliance with work practice standards as follows:	Y	
63.1569(b)(1)	If Option 1 from 63.1569(a)(1) is elected, conduct each performance for bypass line per requirements in 63.1571 and conditions specified in Table 37 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1569(b)(2)	Demonstrate initial compliance with each applicable work practice standard in Table 36 per Table 38 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1569(b)(3)	Demonstrate initial compliance with work practice standard in 63.1569(a)(3) by submitting OMMP to BAAQMD as part of NOCS.	<u>Y</u>	
63.1569(b)(4)	Submit NOCS containing results of the initial compliance demonstration per 63.1574.	<u>Y</u>	
63.1569(c)	Must demonstrate continuous compliance with work practice standards as follows:	<u>Y</u>	
63.1569(c)(1)	Demonstrate continuous compliance with each applicable work practice standard in Table 36 per Table 39 of 40 CFR 63, Subpart UUU.	<u>Y</u>	
63.1569(c)(2)	Demonstrate continuous compliance with work practice standard in 63.1569(a)(3)	<u>Y</u>	

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**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	by complying with procedures in OMMP.		
63.1570	General requirements (S-4237, S-4283 only)	Y	
63.1570(d)	Develop & implement a SSMP (S-4237, S-4283 only)	Y	
63.1570(e)			
63.1570(f)	Report all instances not in compliance with limits or work practice standards (S-4237, S-4283 only)	Y	
63.1570(g)	Deviation during SSM not a violation if following SSMP (S-4237, S-4283 only)	Y	
63.1571	Initial performance test requirements and other initial compliance demonstration (S-4237, S-4283 only)	Y	
63.1572	Monitoring, installation, operation, & maintenance requirements (S-4237, S-4283 only)	Y	
63.1573	Monitoring alternatives (S-4237, S-4283 only)	Y	
63.1574	Notification requirements (S-4237, S-4283 only)	Y	
63.1575	Reporting requirements (S-4237, S-4283 only)	Y	
63.1576	Recordkeeping requirements (Note: CRUs (S-4237 and 4283) are equipped with an internal single-stage scrubbing system, and there are no add-on control devices. Inorganic gases generated at the CRU are scrubbed in a static mixer which is permanently installed in each CRU. Therefore, CMS/CEMS/COMS are not required and §63.1576(b) doesn't apply. S-4237, S-4283 only)	Y	
63.1577	General provision applicability (S-4237, S-4283 only)	Y	
Condition #469	Applies to S-4233, S-4234, S-4236, S-4237, S-4250 , S-4252, , , , S-4283, S-4291, S-4292, S-4340, S-4341, S-4342, S-4343, S-4400	Y	
Condition #8180	Applies to S-4235.	Y	
Condition #8773	Applies to S-4251 & 4155.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #9048	Applies to S-4253.	Y	
Condition #14701	Applies to S-4282A, S-4291 S-4355, S-4356	Y	
Condition #6001	Applies to S-4286.	Y	
Condition #13369	Applies to S-4346, S-4348 .	Y	
Condition #7642	Applies to S-6050.	Y	
Condition #15698	Applies to S-4250. Continuously monitor washwater temperature, vent flow and wash water flow. Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average, water temp < 90F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gpm, water/vent flow ratio > 11.6	Y	
Condition #20944	Applies to S-4292	N	
Condition #18137	Throughput Limits	N	
Condition 18337	Applies to S-4354 and 4360		
Condition 22979	Applies to S-4250		
Condition 22641	Applies to S-4226		
Condition 24433	Applies S-4252, S-4253, S-4348		
Condition #24136	Applies to S-4253, S-4449, S-4450, S-4451		

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Maximum capacity limits (applies to S-4449 and S-4450)	<u>N</u>	Post Modernization
Part 6	Maximum capacity limits (applies to only S-4451)	<u>N</u>	Post Modernization
Part 13e	Startup definition for S-4449, S-4450	<u>N</u>	Post Modernization
Part 35	Hydrogen Plant fugitives requirements (applies to S-4449, S-4450, and S-4451)	<u>Y</u>	Post Modernization
Part 36	Hydrogen Plant fugitive components inspections (applies to S-4449, S-4450, and S-4451)	<u>Y</u>	Post Modernization
Part 37	Recordkeeping (applies to S-4449, S-4450, and S-4451)	<u>N</u>	Post Modernization
Part 38	Recordkeeping (applies to S-4449, S-4450, and S-4451)	<u>N</u>	Post Modernization
Part 80	Throughput limit (applies to only S-4253)	<u>N</u>	Post Modernization
Part 86i	Reroute the PSA tail gas, which currently goes to the RLOP Gas Recovery Unit to the Hydrogen Plant (S-4449 through S-4450) feed or to the refinery fuel gas system	<u>N</u>	Post Modernization
Part 103	Modernization Project Commissioning Period requirements (applies to S-4449, S-4450)	<u>Y</u>	Post Modernization

IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), ~~S-4348 H2 Recovery Plant (RLOP)~~, S-4355 Alky (Yard) DIB, S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 110	Recordkeeping (applies to only S-4253)	<u>Y</u>	Post Modernization
Condition #26714	Applies to knockout drum (V-705A) downstream of S-4252/S-4346 and S-4253	<u>N</u>	

Table IV.D.1.1 Refinery (Refinery)

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)		
1-510	Area Monitoring	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance	Y	
1-544	Monthly Summary	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-602	Area and Continuous Emissions Monitoring	N	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/986/28/99)	Y	
1-301	Public Nuisance Prohibition	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
NSPS Title 40 Part 60 Subpart A	General Provisions (2/27/14)		
40 CFR 60.1	Applicability	Y	
40 CFR 60.2	Definitions	Y	
40 CFR 60.3	Units and Abbreviations	Y	
40 CFR 60.4	Address	Y	
40 CFR 60.5	Determination of Construction or Modification	Y	
40 CFR 60.6	Review of Plans	Y	
40 CFR 60.7	Notification and Record Keeping	Y	
40 CFR 60.8	Performance Tests	Y	
40 CFR 60.9	Availability of Information	Y	
40 CFR 60.11	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 60.12	Circumvention	Y	
40 CFR 60.13	Monitoring Requirements	Y	
40 CFR 60.14	Modification	Y	
40 CFR 60.15	Reconstructions	Y	
40 CFR 60.488	Reconstruction from NSPS Subpart VV	Y	
40 CFR 60.17	Incorporated by Reference	Y	
40 CFR 60.19	General Notification and Reporting Requirements	Y	
NESHAP Title 40 Part 61 Subpart A	NESHAP, General Provisions (05/16/072/27/14)		
40 CFR 61.01	Lists of Pollutants and Applicability of Part 61	Y	
40 CFR 61.02	Definitions	Y	
40 CFR 61.03	Units and Abbreviations	Y	
40 CFR 61.04	Address	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.05	Prohibited Activities	Y	
40 CFR 61.06	Determination of Construction or Modification	Y	
40 CFR 61.07	Application for Approval of Construction or Modification	Y	
40 CFR 61.08	Approval of construction or modification	Y	
40 CFR 61.09	Notification of startup	Y	
40 CFR 61.10	Source reporting and waiver request	Y	
40 CFR 61.12	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 61.13	Emission Tests and Waiver of Emission Tests	Y	
40 CFR 61.14	Monitoring Reports	Y	
40 CFR 61.15	Modification	Y	
40 CFR 61.18	Incorporation by reference	Y	
40 CFR 61.19	Circumvention	Y	
NESHAP Title 40 Part 61 Subpart FF	NESHAP, Benzene Waste Operations (12/4/03)		
40 CFR 61.340(a)	The provisions of this subpart apply to owners and operators of chemical manufacturing plants, coke by-product recovery plants, and petroleum refineries.		
40 CFR 61.342	Standards: general	Y	
40 CFR 61.342(b)	Standards: General; Facility with TAB > 10Mg/year in compliance by 4/7/93	Y	
40 CFR 61.342(c)9(c) & (c)(1)	Standards: General; Treat benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
40 CFR 61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(c)(1)(i)	Y	
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(c)	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR	Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(e)(2)(i)	ton/yr, as determined in 61.355(k).		
40 CFR 61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quality per	Y	
40 CFR 61.346	Standards: Individual drain systems (need to include (b)(3), (b)(4)(iv) & (b)(5))		
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies? 61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices? 61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders? 61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified? 61.354(e) allowed if adequacy of the alternative is demonstrated	Y	
	Are inspections required for by-pass lines in closed vent systems? 61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure? 61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions 61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices 61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept? 61.356(a) keep all records	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)? 61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices? 61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs? 61.356(g) for 61.343 – 61.347 required only when defects are found	Y	
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
40 CFR 61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste (this citation pulls in a number of others)	Y	
NESHAP Title 40 Part 63 Subpart A	General Provisions of MACT Standards (42/22/086/25/13)		
40 CFR 63.1	Applicability	Y	
40 CFR 63.2	Definitions	Y	
40 CFR 63.4	Prohibited activities and circumvention	Y	
40 CFR 63.5	Construction and Reconstruction	Y	
40 CFR 63.6	Compliance with standards and maintenance requirements	Y	
40 CFR 63.7	Performance testing requirements	Y	
40 CFR 63.8	Monitoring requirements	Y	
40 CFR 63.9	Notification requirements	Y	
40 CFR 63.10	Record keeping and reporting requirements	Y	
40 CFR 63.11	Control Device Requirements	Y	
40 CFR 63.12	State Authority and Delegations	Y	
40 CFR 63.13	Addresses of EPA Regional Offices	Y	
40 CFR 63.14	Incorporation by Reference	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.15	Availability of Information and confidentiality	Y	
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for Source Categories: General Provisions; and Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Combustion Turbines	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters (that burn hazardous waste)	Y	
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/23/0312/1/15)		
63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
63.640(c)	Applicability and Designation of Affected Source—Includes all emission points at Refinery	Y	
63.640(d)	Applicability and Designation of Affected Source—Exclusions	Y	
63.640(f)	Applicability and Designation of Affected Source—miscellaneous process vents	Y	
63.640(g)	Applicability and Designation of Affected Source —Exempt Processes	Y	
63.640(h)	Applicability and Designation of Affected Source —Compliance dates	Y	
63.640(i)	Applicability and Designation of Affected Source —New petroleum refining process unit requirements	Y	
63.640(j)	Applicability and Designation of Affected Source —Changes to existing petroleum refining process units	Y	
63.640(k)	Applicability and Designation of Affected Source —Additional requirements for new or changed sources	Y	
63.640(l)	Applicability and Designation of Affected Source —Additions of equipment (i.e. process vents, storage vessels, etc.) in Group 1 sources not subject to 63.640(i) or (k).	Y	
63.640(m)	Applicability and Designation of Affected Source —Changes causing Group 2 emission points to become Group 1 points	Y	
63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.642(b)	Emission standards apply at all times	<u>Y</u>	
63.642(c)	Table 6 of this subpart specifies the Subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	Maintain records as specified in 63.655(i)Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
63.642(i)	Existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) (l) for other emission points.	Y	
63.642(k)	Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater applicable provisions in 63.643 through 63.645, 63.646 or 63.660, 63.647, 63.650, and 63.651, as specified in 63.640(h)63.647 and comply with 63.654 and is exempt from (g)	Y	
63.642(n)	Operate and maintain regulated equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. Further efforts to reduce emissions is not required if levels in the applicable standard have been achieved.	<u>Y</u>	
63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
63.647(b)	Wastewater Provisions	Y	
63.647(c)	If a flare is used as a control device, the flare shall meet the applicable requirements of 40 CFR 61, Subpart FF or the requirements of 63.670Periodic measurement of benzene concentrations	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.647(d)	Periodic measurement of benzene concentrations	<u>Y</u>	
63.654655(a)	Compliance with in -recordkeeping in 40 CFR 61, Subpart FF	Y	
63.654655(e)	Periodic -Reporting and Recordkeeping Requirements	Y	
63.654655(g)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
63.654655(h) (+)	Other r Reports of startup, shutdown, and malfunction	Y	
63.654(h)(2)	Notifications of inspections for storage vessels	<u>Y</u>	
63.654655(i) (+)	Records for storage vessels keeping	Y	
63.654(i)(4)	Information required by 63.654(h)	<u>Y</u>	
63.658(a)	Facility property boundary sampling and sample analysis in accordance with Methods 325A and 325B of Part 63 Appendix A and 63.658(b) – (k)	<u>Y</u>	
63.658(b)	Target analyte is benzene	<u>Y</u>	
63.658(c)	Determining passive monitor locations – samples, background, duplicates, blanks, and co-located	<u>Y</u>	
63.658(d)	Collecting and recording meteorological data	<u>Y</u>	
63.658(e)	Sampling period and sampling frequency	<u>Y</u>	
63.658(f)	Determining Δc and whether results are above or below the action level	<u>Y</u>	
63.658(g)	Requirements for root cause and corrective action	<u>Y</u>	
63.658(h)	Corrective action plan development and submittal	<u>Y</u>	
63.658(i)	Requesting a site-specific monitoring plan	<u>Y</u>	
63.658(j)	Recordkeeping and reporting requirements in 63.655(h) and (i)	<u>Y</u>	
63.658(k)	Requesting an alternative test method	<u>Y</u>	
Appendix Table 1	Hazardous Air Pollutants	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Appendix Table 6	General Provisions Applicability to Subpart CC Hazardous Air Pollutants	Y	
Appendix Table 11	Compliance Dates and Requirements	Y	
40 CFR Part 63 Subpart GGGGG	National Emission Standards for Hazardous Air Pollutants: Site Remediation (12/22/08)		
63.7881(c)	Am I Subject to This Subpart? – Facility Wide 1 Mg/yr Exemption Recordkeeping Requirements	Y	
BAAQMD Regulation 8 Rule 5	Storage of organic liquids (10/18/06)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP BAAQMD Regulation 8 Rule 5	Storage of organic liquids (11/27/02 6/5/03)	Y	
8-5-117	Low vapor pressure exemption	Y	
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	N	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement meeting the accuracy requirements of EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/8310/3/84)		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Regulation 8 Rule 18	Organic Compounds, Equipment Leaks (9/15/04)	N	
SIP BAAQMD Regulation 8 Rule 18	Organic Compounds, Equipment Leaks (11/27/026/5/03)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 40	Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05) SIP approved (12/15/99/19/01)		
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-402	Reporting, Excavation of Contaminated Soil	Y	
<u>BAAQMD Regulation 8 Rule 53</u>	<u>Organic Compounds, Vacuum Truck Operations (04/18/2012)</u>		
<u>8-53-102.1</u>	<u>Applicability for Petroleum refineries</u>	<u>N</u>	
<u>8-53-103</u>	<u>Exemption, Emergences</u>	<u>N</u>	
<u>8-53-104</u>	<u>Limited Exemption, Positive Displacement Pump or Gravity Loading</u>	<u>N</u>	
<u>8-53-105</u>	<u>Exemption, Secondary Treatment Processes</u>	<u>N</u>	
<u>8-53-218</u>	<u>Regulated Material: Wastewater is not a ‘regulated material’</u>	<u>N</u>	
<u>8-53-301</u>	<u>Emission Limit: For any loading event, the owner/operator shall control emissions, either ensuring the TOC concentration does not exceed 500 ppmv, or abated with an efficiency of at least 95 percent</u>	<u>N</u>	
<u>8-53-302</u>	<u>Liquid Leaks: Cannot exceed a rate in excess of three drops per minute</u>	<u>N</u>	
<u>8-53-303</u>	<u>Vapor Leaks: Cannot exceed 500 ppmv</u>	<u>N</u>	
<u>8-53-304</u>	<u>Unloading of Regulated Material: Materials must be either unloaded into a tank, vessel or sump that meets the requirements of Reg 8, Rule 5 or Reg 8, Rule 8 or into a non-compliant tank, vessel, or sump using a submerged fill pipe that meets requirements of Reg 8, Rule 5</u>	<u>N</u>	
<u>8-53-401</u>	<u>Loading Event Schedule Reporting Requirements – Upon request from the BAAQMD, provide the specified information within 30 working days for loading events that are scheduled within 30 days of the request (changes to loading event schedule must be reported to BAAQMD within 20 hours prior to loading event):</u>	<u>N</u>	
<u>8-53-501</u>	<u>Emissions Monitoring Requirements: monitor and record emissions of an affected facility using a vacuum truck operation</u>	<u>N</u>	
<u>8-53-502</u>	<u>Recordkeeping Requirements: record the specified information for the loading events</u>	<u>N</u>	
<u>8-53-601</u>	<u>Measurement of TOC Concentrations</u>	<u>N</u>	
<u>8-53-602</u>	<u>Analysis of Materials, True Vapor Pressure</u>	<u>N</u>	
<u>8-53-603</u>	<u>Analysis of Materials, Percent Water Volume</u>	<u>N</u>	

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-53-604	Determination of Abatement Efficiency	N	
BAAQMD Regulation 9 Rule 1	Sulfur Dioxide(3/15/95) SIP approved (5/20/926/8/99)		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-601	Ground Level Monitoring	Y	
BAAQMD Regulation 9 Rule 2	Hydrogen Sulfide(10/6/99)	N	
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
Condition #469	Refinery CAP	Y	
Condition #20764			
Part 1	Requirement to verify the true vapor pressure, whenever the organic liquid in the tank is changed (Regulation 2-6-409.2)	Y	
Part 2	Requirement to maintain District-approved log for at least five year from date of entry (Regulation 2-6-409.2)	Y	
Condition #24136	Applies to all sources covered in A/N 12842 for the Modernization Project (applies to S-1455, S-2420, S-2421, S-2445, S-4227, S-4228, S-4229, S-4253, S-4436, S-4437, S-4438, S-4449, 4450, S-4451, S-4454, S-4465, S-4471, S-4472, A-4450, S-4490, S-6021)		
Part 106	PSD net emissions increase thresholds	Y	Post Modernization
Part 107	CEMs and source test requirements to demonstrate compliance with PSD thresholds	Y	Post Modernization
Part 108	PSD reporting requirements to demonstrate that the higher of either the permitted or actual total Modernization Project source net emissions increases do not exceed the PSD	Y	Post Modernization
Part 109	Recordkeeping requirements for all sources covered by A/N 12842	N	Post Modernization

IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery
 Refinery-wide Applicable Requirements**

Refinery

Facility #A0010

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 110	Keep records for at least 5 years	Y	Post Modernization
Part 111	Submit a quarterly report no later than 60 days following the end of each calendar quarter addressing compliance with parts 9, 90, 92, and 95	N	Post Modernization
Part 112	In the absence of any specific permit condition, maintain adequate records to demonstrate compliance with all parts of these conditions	N	Post Modernization
Part 113	District pre-approved source tests	N	Post Modernization
Part 114	Satisfy TAC source test requirements	N	Post Modernization
Part 115	Initial TAC source testing requirements	N	Post Modernization
Part 116	Annual TAC source testing requirement and re-run of HSRA	N	Post Modernization
Part 117	Source test procedure submittal to District	N	Post Modernization
Part 118	File Title V permit application amendment for SDA plant throughput	N	Post Modernization

Table IV.E.1.1 Sulfur Recovery (H2S Plants)

**Table IV.E.1.1 Sulfur Recovery
 Source-specific Applicable Requirements**

H2S Plants

S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S), [S-4454 #6 H2S Plant Recycle Amine](#)

IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92/6/8/99) [Only provisions which are different than current BAAQMD regulation are listed]		
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams.	Y	
Condition #469	Refinery Cap (Only applies to S-4345)	Y	
Condition #18655			
Part 2	Source test requirement for 6-330	Y	
Condition 18945			
Parts 1-6	Daily and annual throughput limits	N	
Part 7	Record keeping	N	
Condition 24136	Applies to S-4454		Post Modernization
Part 77	H2S limit	N	Post Modernization
Part 82	Abate S-4227, S-4228, and S-4229 by properly maintained and operated A-20, A-21, A-22 and acid gas scrubber (A-4450); limit for acid gas feed rate to SRU, and “Load Shed Procedures”	Y	
Part 86g	Hydrocarbon removal	Y	Post Modernization
Part 110	Recordkeeping	Y	Post Modernization
Condition 24433	Applies to S-4435		
Permit Condition 26681	Applies to pumps (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) at S-4429 and fugitives	N	

Table IV.E.2.1 Sulfur Recovery (Claus Plants)

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/9/085/4/11)	N	
1-520	Continuous Emission Monitoring [applicable in accordance with 9-1-502]	Y	
1-520.4	SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2	Y	
1-520.8	Monitors required by Regulations 10, 12 and 2-1-403	Y	
<u>1-521</u>	<u>Monitoring may be required</u>	<u>Y</u>	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures [applicable in accordance with 9-1-502]	Y	
1-522.1	Approval of plans and specifications	Y	
1-522.2	Scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	Reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
1-522.8	Monitoring data submittal requirements	Y	
1-522.9	Recordkeeping requirements	Y	
<u>1-522.10</u>	<u>Monitors Required By 1-521 or 2-1-403</u>	<u>Y</u>	
SIP Regulation 1	General Provisions and Definitions (10/7/986/28/99) [provisions of SIP are identical to current Regulation 1 for SO2 sources, but not for combustion devices]	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
[S-4436 Stack Gas Heater #1 SRU \(replaced S-4192\),](#)
[S-4437 Stack Gas Heater #2 SRU \(replaced S-4193\),](#)
[S-4194 F-2370 Tail Gas Heater #3 SRU](#)
[\(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization\)](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.7	Emission limit exceedance reporting requirements	Y	
BAAQMD Regulation 6-1	Particulate Matter and Visible Emissions (12/05/078/1/18)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particulate Weight Limitation	N	
6-1-310.3	TSP for Heat Transfer Operations	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	N	
6-1-401	Appearance of Emissions	N	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/909/4/98)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-307	Emission Limitations for Sulfur Recovery Plants [applies to sulfur plants which emit 100 lb/day SO ₂ or more]	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522) [if subject to 9-1-304 or 9-1-307]	Y	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92/6/8/99) [Only provisions which are different than current BAAQMD regulation are listed]	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams.	Y	
BAAQMD Regulation 9 Rule 10	Nitrogen Oxides And Carbon Monoxide From Boilers, Steam Generators And Process Heaters In Petroleum Refineries (10/16/2013)		
9-10-110.4	Exemption: Boilers, steam generators and process heaters processing hydrogen sulfide process flue gas in sulfur recovery plants and their tail-gas treating units, or sulfuric acid manufacturing plants (applies to S-4194, S-4436, S-4437, S-4438)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>NSPS 40 CFR 60 Subpart A</u>	<u>General Provisions (02/27/14)</u>		
<u>60.7</u>	<u>Notification and record keeping</u>	<u>Y</u>	
<u>60.8</u>	<u>Performance tests</u>	<u>Y</u>	
<u>60.11</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>60.11(a)</u>	<u>Performance test</u>	<u>Y</u>	
<u>60.11(d)</u>	<u>Good air pollution control practice for minimizing emissions</u>	<u>Y</u>	
<u>60.11(f)</u>	<u>Special provisions</u>	<u>Y</u>	
<u>60.11(g)</u>	<u>Any credible evidence or information</u>	<u>Y</u>	
<u>60.12</u>	<u>Circumvention</u>	<u>Y</u>	
<u>60.13</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>60.13(a)</u>	<u>Continuous monitoring systems subject to Appendix B, and Appendix F(if used to demonstrate compliance with continuous emission limits), of Part 60</u>	<u>Y</u>	
<u>60.13(b)</u>	<u>Continuous monitoring systems and devices operational prior to performance tests required by 60.8</u>	<u>Y</u>	
<u>60.13(d)</u>	<u>Continuous monitoring system zero and span calibration requirements</u>	<u>Y</u>	
<u>60.13(e)</u>	<u>Continuous monitoring system minimum frequency of operation</u>	<u>Y</u>	
<u>60.13(f)</u>	<u>Continuous monitoring system installation location requirement</u>	<u>Y</u>	
<u>60.13(i)</u>	<u>Alternatives to any monitoring procedures or requirements</u>	<u>Y</u>	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (6/24/0812/1/15)		
60.104(a)(2)(i)	Limit on sulfur dioxide emissions from Claus sulfur recovery plants	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(5)	Continuous SO2 monitoring requirement for Claus Sulfur recovery plant emissions to atmosphere	Y	
60.105(a)(5)(i)	Requirement on the span of the SO2 monitoring device	Y	
60.105(a)(5)(ii)	Methods for performance evaluations and relative accuracy audits	Y	
60.105(e)(4)(i)	Sulfur dioxide excesses	Y	
60.106	Test methods and procedure	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.108	Performance test and compliance	Y	
<u>40 CFR Part 60 Subpart Ja</u>	<u>Standards of Performance for Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007 (7/13/16)</u>		
<u>60.100a(a)</u>	<u>Applicability</u> <u>The provisions of this subpart apply to the following affected facilities in petroleum refineries: fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including process heaters), flares and sulfur recovery plants. The sulfur recovery plant need not be physically located within the boundaries of a petroleum refinery to be an affected facility, provided it processes gases produced within a petroleum refinery.</u>	<u>Y</u>	<u>Post Modernization</u>

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.102a(f)(1)	SO ₂ emissions limit for sulfur recovery plants with design capacity > 20 LTD For a sulfur recovery plant with a design production capacity greater than 20 long tons per day (LTD), the owner or operator shall comply with the applicable emission limit in paragraph (f)(1)(i) or (ii) of 60.102a. If the sulfur recovery plant consists of multiple process trains or release points, the owner or operator shall comply with the applicable emission limit for each process train or release point individually or comply with the applicable emission limit in paragraph (f)(1)(i) or (ii) as a flow rate weighted average for a group of release points from the sulfur recovery plant provided that flow is monitored as specified in §60.106a(a)(7); if flow is not monitored as specified in §60.106a(a)(7), the owner or operator shall comply with the applicable emission limit in paragraph (f)(1)(i) or (ii) for each process train or release point individually.	Y	Post Modernization
60.102a(f)(1)(i)	SO ₂ emissions limit For a sulfur recovery plant with an oxidation control system* or a reduction control system followed by incineration, the owner or operator shall not discharge or cause the discharge of any gases containing SO ₂ into the atmosphere in excess of the emission limit calculated using Equation 1 in 60.102a. For Claus units that use only ambient air in the Claus burner or that elect not to monitor O ₂ concentration of the air/oxygen mixture used in the Claus burner or for non-Claus sulfur recovery plants, this SO ₂ emissions limit is 250 ppmv (dry basis) at zero percent excess air. * Chevron operates Wellman-Lord (WL) oxidation control system (A-20, 21, and 22). The tail gas flow/abatement train for each system is: thermal oxidizer → waste heat boiler → quench column → knock out pot → SO ₂ absorber (WL) → wet ESP → stack gas heater → stack.	Y	Post Modernization
60.102a(f)(3)	SO ₂ emissions limit The emission limits in paragraphs (f)(1) and (2) shall not apply during periods of maintenance of the sulfur pit, which shall not exceed 240 hours per year. The owner or operator must document the time periods during which the sulfur pit vents were not controlled and measures taken to minimize emissions during these periods. Examples of these measures include not adding fresh sulfur or shutting off vent fans.	Y	Post Modernization

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.103a(c)(3)	<u>Design, Equipment, Work Practice or Operational Standards</u> Except as provided in paragraphs (f) and (g) of 60.103a, the owner or operator of a sulfur recovery plant subject to this subpart shall conduct a root cause analysis and a corrective action analysis each time the SO ₂ emissions are more than 227 kg (500 lb) greater than the amount that would have been emitted if the SO ₂ or reduced sulfur concentration was equal to the applicable emissions limit in §60.102a(f)(1) or (2) during one or more consecutive periods of excess emissions or any 24-hour period, whichever is shorter.	<u>Y</u>	<u>Post Modernization</u>
60.103a(d)	<u>Design, Equipment, Work Practice or Operational Standards</u> Except as provided in paragraphs (f) and (g) of 60.103a, a root cause analysis and corrective action analysis must be completed as soon as possible, but no later than 45 days after a discharge meeting one of the conditions specified in paragraphs (c)(1) through (3) of 60.103a. Special circumstances affecting the number of root cause analyses and/or corrective action analyses are provided in paragraphs (d)(1) through (5) of 60.103a.	<u>Y</u>	<u>Post Modernization</u>
60.103a(e)	<u>Design, Equipment, Work Practice or Operational Standards</u> Except as provided in paragraphs (f) and (g) of 60.103a, each owner or operator of a sulfur recovery plant subject to 60.103a shall implement the corrective action(s) identified in the corrective action analysis conducted pursuant to paragraph (d) of 60.103a in accordance with the applicable requirements in paragraphs (e)(1) through (3) of 60.103a.	<u>Y</u>	<u>Post Modernization</u>
60.104a(a)	<u>Performance test methods for compliance with SO₂ emissions limits</u> The owner or operator shall conduct a performance test for each sulfur recovery plant to demonstrate initial compliance with each applicable emissions limit in §60.102a according to the requirements of §60.8. The notification requirements of §60.8(d) apply to the initial performance test and to subsequent performance tests required by paragraph (b) of 60.104a (or as required by the Administrator), but does not apply to performance tests conducted for the purpose of obtaining supplemental data because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments.	<u>Y</u>	<u>Post Modernization</u>

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104a(c)	Performance test methods for compliance with SO ₂ emissions limits In conducting the performance tests required by this subpart (or as requested by the Administrator), the owner or operator shall use the test methods in 40 CFR part 60, Appendices A-1 through A-8 or other methods as specified in 60.104a, except as provided in §60.8(b).	Y	Post Modernization
60.104a(h)	Performance test methods for compliance with SO ₂ emissions limits The owner or operator shall determine compliance with the SO ₂ emissions limits for sulfur recovery plants in §60.102a(f)(1)(i) and (f)(2)(i) and the reduced sulfur compounds and H ₂ S emissions limits for sulfur recovery plants in §60.102a(f)(1)(ii), (f)(1)(iii), (f)(2)(ii), and (f)(2)(iii) using the furnished methods and procedures.	Y	Post Modernization
60.106a(a)(1)	Monitoring of Emissions and Operations for Sulfur Recovery Plants The owner or operator of a sulfur recovery plant that is subject to the emissions limits in §60.102a(f)(1) or §60.102a(f)(2) shall install, operate, calibrate, and maintain an instrument for continuously monitoring and recording the concentration (dry basis, zero percent excess air) of any SO ₂ emissions into the atmosphere. The monitor shall include an oxygen monitor for correcting the data for excess air.	Y	Post Modernization
60.106a(b)	Monitoring of Emissions and Operations for Sulfur Recovery Plants For the purpose of reports required by §60.7(c), periods of excess emissions for sulfur recovery plants subject to the emissions limitations in §60.102a(f) are defined as specified in paragraphs (b)(1) through (3) of 60.106a.	Y	Post Modernization
60.108a(a)	Recordkeeping and Reporting Requirements Each owner or operator subject to the emissions limitations in §60.102a shall comply with the notification, recordkeeping, and reporting requirements in §60.7 and other requirements as specified in 60.108a.	Y	Post Modernization

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.108a(b)	<u>Recordkeeping and Reporting Requirements</u> Each owner or operator subject to an emissions limitation in §60.102a shall notify the Administrator of the specific monitoring provisions of §§60.105a, 60.106a and 60.107a with which the owner or operator intends to comply. Each owner or operator of a co-fired process heater subject to an emissions limitation in §60.102a(g)(2)(iii) or (iv) shall submit to the Administrator documentation showing that the process heater meets the definition of a co-fired process heater in §60.101a. Notifications required by this paragraph shall be submitted with the notification of initial startup required by §60.7(a)(3).	<u>Y</u>	<u>Post Modernization</u>
60.108a(c)	<u>Recordkeeping and Reporting Requirements</u> The owner or operator shall maintain records of discharges greater than 500 lb SO ₂ in excess of the allowable limits from a sulfur recovery plant. The following information shall be recorded no later than 45 days following the end of a discharge exceeding the thresholds for each discharge greater than 500 lb SO ₂ in excess of the allowable limits from a sulfur recovery plant, either the measured concentration of reduced sulfur or SO ₂ discharged to the atmosphere.	<u>Y</u>	<u>Post Modernization</u>
60.108a(d)	<u>Recordkeeping and Reporting Requirements</u> Each owner or operator subject to this subpart shall submit an excess emissions report for all periods of excess emissions according to the requirements of §60.7(c) except that the report shall contain the information specified in paragraphs (d)(1) through (7) of 60.108a.	<u>Y</u>	<u>Post Modernization</u>
<u>NESHAP 40 CFR 63 Subpart A</u>	<u>MACT General Provisions (06/25/13)</u>		
63.4	<u>Prohibited Activities and Circumvention</u>	<u>Y</u>	
63.6	<u>Compliance with Standards and Maintenance Requirements</u>	<u>Y</u>	
63.6(e)	<u>Operation and Maintenance Requirements</u>	<u>Y</u>	
63.6(f)	<u>Compliance with Nonopacity Emission Standards</u>	<u>Y</u>	
63.6(g)	<u>Use of Alternative Nonopacity Emission Standard (optional)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
[S-4436 Stack Gas Heater #1 SRU \(replaced S-4192\)](#),
[S-4437 Stack Gas Heater #2 SRU \(replaced S-4193\)](#),
[S-4194 F-2370 Tail Gas Heater #3 SRU](#)
[\(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization\)](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
40 CFR 63 Subpart UUU	National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/20/067/13/16)	Y	
63.1561	Subject to this subpart	Y	
63.1562	Parts of plants that are covered (including exemptions)	Y	
63.1563	When to comply	Y	
63.1568	Requirements for hap emissions from sulfur recovery units	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
[S-4436 Stack Gas Heater #1 SRU \(replaced S-4192\),](#)
[S-4437 Stack Gas Heater #2 SRU \(replaced S-4193\),](#)
[S-4194 F-2370 Tail Gas Heater #3 SRU](#)
[\(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization\)](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(a)(1)	250 ppmv dry SO2 emission limit (@0% O2) for existing unit W/oxidation control system	Y	
63.1568(a)(3)	Prepare & operate in compliance with an OMM plan	Y	
63.1568(a)(4)	Alternative requirements during startup and shutdown	Y	
63.1568(b)(1)	SO2 and O2 CEMS required to continuously monitor compliance	Y	
63.1568(b)(5)	Demonstrate initial compliance: for units already NSPS, no new performance test or CEMS eval. But certify vents meet SO2 limit & CEMS performance	Y	
63.1568(b)(6)	Submit OMM plan to permit authority with NOCS	Y	
63.1568(b)(7)	Submit NOCS	Y	
63.1568(c)(1)	Collect hourly average SO2 ppmv dry @ 0% O2. Record 12-hour average SO2 & report exceedances of the 12-hour average	Y	
63.1568(c)(2)	Comply with the OMM plan	Y	
63.1569	Bypass lines	Y	
63.1570	General requirements	Y	
63.1570(d)	Develop & implement a SSMP	Y	
63.1570(f)	Report all instances not in compliance with limits or work practice standards	Y	
63.1570(g)	Deviation during SSM not a violation if following SSMP	Y	
63.1571	Initial performance test requirements	Y	
63.1572	Monitoring, installation, operation, & maintenance requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
[S-4436 Stack Gas Heater #1 SRU \(replaced S-4192\),](#)
[S-4437 Stack Gas Heater #2 SRU \(replaced S-4193\),](#)
[S-4194 F-2370 Tail Gas Heater #3 SRU](#)
[\(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization\)](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1573	Monitoring alternatives	Y	
63.1574	Notification requirements	Y	
63.1575	Reporting requirements	Y	
63.1576	Recordkeeping requirements	Y	
63.1577	General provision applicability	Y	
Condition #469	Refinery Cap	Y	
Condition #18655.2	Annual SO3/H2SO4 Source Test	Y	
Condition #19063.1	SRU #1 Train Sulfur Throughput Limit [applies to S-4227] – superseded by Condition 24136, Part 85 upon modification	N	
Condition #19063.2	SRU #2 Train Sulfur Throughput Limit [applies to S-4228] – superseded by Condition 24136, Part 85 upon modification	N	
Condition #19063.3	SRU #2 -3 Train Sulfur Throughput Limit [applies to S-4229] – superseded by Condition 24136, Part 85 upon modification	N	
Condition #19063.4	10 ppm H2S SRU stacks limit [applies to Tail Gas Units A-20, A-21, and A-22] – superseded by Condition 24136, Part 85 upon modification	Y	
Condition #19063.5	Daily log – superseded by Condition 24136, Part 85 upon modification	N	
Condition #19063.6	Log kept onsite 5 years – superseded by Condition 24136, Part 85 upon modification	N	
Condition 22262			
Part 2	Visible emissions monitoring	Y	
Condition #24136			

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (WESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (WESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (WESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 81	Minimum oxidation temperature for tail gas units [Applies to A-20, A-21, A-22]	<u>Y</u>	<u>Post Modernization</u>
Part 82	Abate S-4227, S-4228, and S-4229 by properly maintained and operated A-20, A-21, A-22 and acid gas scrubber (A-4450); limit for acid gas feed rate to SRU, and "Load Shed Procedures"	<u>Y</u>	<u>Post Modernization</u>
Part 83	Abate S-4227, S-4228, and S-4229 with Wet Electrostatic Precipitators (Wet ESPs) A-120, A-121, and A-122 at all times	<u>Y</u>	<u>Post Modernization</u>
Part 84	Emission limits for A-20, A-21, and A-22 emissions points	<u>Y</u>	<u>Post Modernization</u>
Part 85	Comply with parts 84, 86, 87, 90, and 92; these conditions supersede Condition 19063, after modification of each SRU S-4227, S-4228, and S-4229	<u>Y</u>	<u>Post Modernization</u>
Part 86	Requirements for S-4227, S-4228, and S-4229 Sulfur Recovery Units (SRUs)	<u>Y</u>	<u>Post Modernization</u>
Part 86c	Install ultra low-NOx burners equipped with FIR on each stack gas heater of each SRU (Applies to S-4436, S-4437, and S-4438)	<u>N</u>	<u>Post Modernization</u>
Part 86d	Maximum firing rate limits (Applies to S-4436, S-4437, and S-4438)	<u>N</u>	<u>Post Modernization</u>
Part 87	Total sulfur production throughput limits	<u>N</u>	<u>Post Modernization</u>
Part 88	PM10 and Sulfuric Acid limits and parametric monitoring requirements for Wet ESP [Applies to A-120, A-121, and A122]	<u>N</u>	<u>Post Modernization</u>

IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Claus Plants

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration [and A-120 Wet Electrostatic Precipitator \(WESP\)](#), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration [and A-121 Wet Electrostatic Precipitator \(WESP\)](#), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration [and A-122 Wet Electrostatic Precipitator \(WESP\)](#)

[Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply](#)
[S-4436 Stack Gas Heater #1 SRU \(replaced S-4192\),](#)
[S-4437 Stack Gas Heater #2 SRU \(replaced S-4193\),](#)
[S-4194 F-2370 Tail Gas Heater #3 SRU](#)
[\(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization\)](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 89	Daily log	N	Post Modernization
Part 90	Combined emission limits for SRUs (S-4227, 4228, 4229), stack heaters (S-4436, 4437, 4438), Tail Gas Units (A-20, 21, 22), and WESPs (A-120, 121, 122).	N	Post Modernization
Part 91	Continuous emission monitors and recorders for emission points for NOx, CO, SO2, O2, and exhaust gas flow rate. Monthly H2S monitoring	Y	Post Modernization
Part 92	Emission limits for Claus Plant and stack heaters except during startup and shutdown	Y	Post Modernization
Part 93	Source test to determine initial compliance with POC, H2S, PM10, Sulfuric Acid Mist, and ammonia limits	Y	Post Modernization
Part 94	Quarterly source test requirements for at least two years; then may apply to switch to semi-annual source testing	Y	Post Modernization
Part 95	H2S (stack), sulfuric acid mist (stack), and H2S fugitive emission limits	N	Post Modernization
Part 104	Modernization Project Commissioning Period requirements	Y	Post Modernization
Part 110	Recordkeeping	Y	Post Modernization

IV. Source-Specific Applicable Requirements

Table IV.E.3.1 Sulfur Recovery (Sulfur Rack)

**Table IV.E.3.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Sulfur Racks

~~S-3141, S-4396 Sulfur Loading Racks and S-3226 and S-3234 Sulfur Storage Tanks~~ abated by A-0043 Venturi Water Scrubber in series with A-0044 Venturi Caustic Scrubber, S-4490 Sulfur Loading Truck Rack abated by A-310 Water Scrubber in series with Caustic Scrubber of Packed Bed Design*

*When S-4490 replaces S-4396, A-0043 and A-0044 will abate S-3226 and S-3234

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #18137	Throughput limits	N	
Condition #1046 Part 1	Sulfur Storage Tanks S-3141-3226 and S-3234 shall be abated <u>at all times of operation</u> by A-0043 Venturi <u>Water Scrubber in series with A-0044 Venturi Caustic Scrubber</u> . (Basis: cumulative increase)	N	
Condition #1046 Part 2	Downtime of the A-43 <u>and A-44</u> Scrubbers shall be minimized to the extent practicable	N	
Condition #1046 Part 3	Owner/operator of S-3226 and S-3234, 3141 shall maintain records of preventive maintenance downtime <u>and/or API inspections</u> .	N	
<u>Condition #24136</u>	<u>Applies to S-4490 abated by A-310</u>		
Part 79	Throughput limit (superseded by part 2 of permit condition 25814)	N	Post Modernization
Part 82	Install and maintain an acid gas scrubber (A-4450)	Y	Post Modernization
Part 110	Recordkeeping	Y	Post Modernization
Condition #25814 Part 1	<u>Applies to S-4490 abated by A-310</u> Abate S-4490 with properly installed, maintained, and operated A-310 (water scrubber in series with caustic scrubber) at all times of operation to ensure TAC emisisions are below TAC acute/chronic trigger levels in Table 2-5-1 of Regulation 2-5.	N	
<u>Part 1</u>	<u>Abate S-4490 with properly installed, maintained, and operated A-310 (water scrubber in series with caustic scrubber) at all times of operation to ensure TAC emisisions are below TAC acute/chronic trigger levels in Table 2-5-1 of Regulation 2-5.</u>	N	

IV. Source-Specific Applicable Requirements

**Table IV.E.3.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Sulfur Racks

~~S-4396 Sulfur Loading Racks and S-3226 and S-3234~~ S-3141, Sulfur Storage Tanks abated by A-0043 Venturi Water Scrubber in series with A-0044 Venturi Caustic Scrubber, S-4490 Sulfur Loading Truck Rack abated by A-310 Water Scrubber in series with Caustic Scrubber of Packed Bed Design*

*When S-4490 replaces S-4396, A-0043 and A-0044 will abate S-3226 and S-3234

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #25814 Part 2	Hourly, Daily (<u>annual average and calendar</u>), and annual molten sulfur throughput limits for S-4490 in long tons	N	
Condition #25814 Part 3	Requirement to maintain and retain molten sulfur throughput records for S-4490 on a daily, monthly, and annual basis	N	
Condition #25814 Part 4	90-day limitation on concurrent operation of S-4490 and S-4396 and requirement to abate molten sulfur storage tanks (S-3141-3234 and S-3226) by A-43 (water scrubber) and A-44 (caustic scrubber) after S-4396 is removed from service.	N	
Condition #25814 Part 5	Abated H2S concentration exiting A-310 < 12 ppm; and initial and subsequent source testing requirements	N	
Condition #25814 Part 6	Submission requirements before conducting initial and subsequent source tests	N	
Condition #25814 Part 7	Notification/submission requirements before/after conducting initial and subsequent source tests	N	
Condition #25814 Part 8	Criteria for reducing source test frequency	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.0 Storage Tanks

Table IV.F.1.0 Storage Tanks
 Source-specific Applicable Requirements

Tanks with Conditions only

~~S-252801~~, S-1894, ~~S-1909~~, ~~S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4364 Perc Storage Tank, S-4365 Tri Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A Chemical Tote~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Permit Condition 4233	Applies to S-1911 , S-1913, S-1914, S-1915, S-1919, S-2920, S-2921		
Permit Condition 11208	Applies to S-1911 , S-6125, S-1909		
Permit Condition 12580	Applies to S-1894		
Permit Condition 15107	Applies to S-252801		
Permit Condition 18337	Applies to S-4360		
Permit condition 23765	Applies to S-4360		
Permit condition 23773	Applies to S-4363		
Permit condition 23774	Applies to S-4364		
Permit condition 24452	Applies to S-4365		
Permit Condition 24604	Applies to S-4366, S-4367, S-4368, S-4369, and S-4370	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.0 Storage Tanks
 Source-specific Applicable Requirements**

Tanks with Conditions only

[S-252801](#), S-1894, ~~S-1909~~, ~~S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4364 Perc Storage Tank, S-4365 Tri Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A Chemical Tote~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Permit Condition 24606	Applies to S-4372	N	
Permit Condition 25001	Applies to S-4373 and fugitives	N	
Permit Condition 25479	Applies to S-4374 and fugitives	N	
Permit Condition 25785	Applies to S-4375 and fugitives	N	
Permit Condition 26558	Applies to S-6022 and fugitives	N	
Permit Condition 26815	Applies to S-4481 to 4483 and fugitives	N	

Table IV.F.1.1 Tanks (FRT's Cluster 01a)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date

IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks (FRT's Cluster 01b)

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	Storage of organic liquids (10/18/06)		
8-5-117	Low Vapor Pressure Exemption < 0.5 psia	N	
SIP BAAQMD Regulation 8 Rule 5	Storage of organic liquids (11/27/02 6/5/03)		
SIP 8-5-117	Low Vapor Pressure Exemption < 0.5 psia	Y	
Refinery MACT <u>CC</u>	NESHAP for Petroleum Refineries (6/23/03)12/1/15) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) and (n)(2) NSPS subpart Kb <u>except as provided in 63.640(n)(8)(i) through (viii)</u>	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR RECORD KEEPING ONLY		

IV. Source-Specific Applicable Requirements

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.116b(a) keep records Y	
60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	60.116b(b) required keep record readily accessible for the life of the tank Y	
60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b(c) internal diameter & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, or capacity ≥ 40,000 gallons and TVP ≥ 0.51 keep record as long as the tank is in that service Y	
60.116b(d)	Periodic Reports: Miscellaneous additional information to report:	60.116b(d) TVP exceedances for a tank > 20,000 gallons that is normally below the TVP cutoff Y	
60.116b(e)	True vapor pressure (TVP) determination for applicability:	60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.116b(f)	Special requirements for tanks storing waste mixtures:	60.116b(f) TVP determination every 6 months if: TVP < control cutoff & TVP > monitoring cutoff	Y
60.116b(g)	Periodic Reports: Miscellaneous reporting exemptions:	60.116b(g) reporting of TVP exceedances is not required if tank is routed to a compliant control device	Y
	Applicability determination: Miscellaneous recordkeeping exemptions:	60.116b(g) keeping record of TVP is not required if tank is routed to a compliant control device	Y
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after construction begins.	Y
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	60.7(a)(4) notification 60 days or as soon as practicable before the change	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7(f)	General recordkeeping requirements: 60.7(f) Time period for keeping records, keep all reports & notifications unless specified otherwise.	Y	
	General recordkeeping requirements: 60.7(f) keep all reports and notification for required the specified period of time.	Y	
Refinery MACT CC	NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORD KEEPING ONLY		
63.642(e) 63.654655(i)	General recordkeeping requirements: 63.642(e) & 63.654655(i)(4) Time period for keeping records, keep all other records, retrievable within unless specified otherwise. 24 hr	Y	
63.655(i)	General recordkeeping requirements: 63.642(e) & 63.654655(i)(4)(6) Keep all reports and notification for required the specified period of time. Retain reported information for 5 years	Y	
63.646(h) 63.9 (b)	Initial Notification: 63.646(h) Is initial notification of the source's Table 6 Ref. 63.9 (b)(2) existence required? Not required	Y	
63.646(i)	Implementation Plan 63.646(i) & 63.652(b) Not required	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654655(f) 63.652(b)	Notification of Compliance Status report:	63.654655(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654655(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654655(h)	Report applicability for varying-use tanks?	63.654655(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654655(h)(6)(ii) required with the initial Notification of Compliance Status report	
63.654655(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654655(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654655(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for Nonexempt tanks?	63.654655(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required, keep record readily accessible for service life of the tank	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: 63.654655(i)(1)(iv) Additional recordkeeping determination of HAP content keep requirements for certain tanks. record readily accessible for service life of the tank		
Condition #1046	Applies to S-3141 S-3234 and S-3226		
Condition # 4233	Applies to S-1908, S-2917 and S-2918	N	
Condition #10967 Part 1	Applies to S-1052	Y	
Condition #10967 Part 2	Applies to S-1052	Y	
Condition #10967 Part 3	Applies to S-1052	Y	
Condition #11024	Applies to S-3185	Y	
Condition #11228	Throughput Limits	Y	
Condition #11436	Applies to S-1653	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052, S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, , S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109,

S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #12580	Applies to S-1821	N	
Condition #18137	Throughput limits	N	
Condition 20764	Vapor pressure monitoring and recording	Y	

Table IV.F.1.3 Tanks (FRT's < 10,000 gallon Cluster 02)

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks < 10,000 gallons Cluster 02

~~S-0021~~, S-4940

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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IV. Source-Specific Applicable Requirements

Table IV.F.1.3 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks < 10,000 gallons Cluster 02

S-0021, S-4940

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks < 10,000 gallons Cluster 02

S-0021, S-4940

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks < 10,000 gallons Cluster 02

S-0021, S-4940

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/026/5/03)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank degassing requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks < 10,000 gallons Cluster 02

~~S-0021~~, S-4940

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-403	Inspection Requirements for Pressure Relief Device	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per <10,000 gallon exemption)	Y	
Condition #18137	Throughput limits	N	
Condition # 23001	Applies to S-4940	Y	

Table IV.F.1.4 Tanks (FRT's Wastewater Cluster 05)

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18 (only applies to S-0660 and S-6066)	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-306	Requirements for approved Emission Control System (only applies to S-0660 and S-6066)	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95% (only applies to S-0660 and S-6066)	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports (only applies to S-0660 and S-6066)	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.4 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement (only applies to S-0660 and S-6066)	N	
8-5-502.1	Annual source test for approved emission control systems and abatement devices (only applies to S-0660 and S-6066)	N	
8-5-502.2	Tank degassing and cleaning abatement devices (only applies to S-0660 and S-6066)	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/02/5/03)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.4 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-403	Inspection Requirements for Pressure Relief Device	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.4 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per <10,000 gallon exemption)	Y	
Wastewater Requirements for S-6200 through S-6219 (from Wastewater Cluster 60b)			
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT <u>CC</u>	NESHAP for Petroleum Refineries (6/23/03/12/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y
	If a flare is used as a control device	63.647(c) On and after January 30, 2019 meet requirements of 63.670. Prior to January 30, 2019 the flare shall meet the requirements of 61 Subpart FF or 63.670	<u>Y</u>
	Clarification with respect to violations	63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63. 654 <u>655</u>	Which recordkeeping and reporting requirements govern?	63. 654 <u>655</u> (a) recordkeeping and reporting shall be per 61 Subpart FF	Y
NESHAP 40 CFR part 61 Subpart FF	Benzene Waste Operations (12/04/03) REQUIREMENTS FOR CONTAINERS		

IV. Source-Specific Applicable Requirements

Table IV.F.1.4 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.345	When is this type of WMU subject to these requirements?	61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene ≥ 10 Mg/yr	Y
	Install, operate, and maintain a cover over the WMU.	61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y
	Route vapors through a closed vent system to a control device?	61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y
	Demonstrate no detectable emissions using Method 21?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y
	Inspection per Method 21 required initially, and annually thereafter?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use?	61.345(a)(1)(ii) required for the container 61.345(a)(3) Not required for the enclosure	Y
	Are there requirements that are unique to this type of WMU?	61.345(a)(2) Load using a submerged fill pipe	Y
	Are there conditions for which vapors are not required to be routed to a control device?	61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y
	What is required for WMUs not routed to a control device?	61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly?	61.345(b) required for the container 61.345(b) required for the enclosure	Y
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days?	61.345(c) required for the container 61.345(c) required for the enclosure	Y
	Delay of repair allowed?	61.345(c) yes, for the container, per 61.350 61.345(c) yes, for the enclosure, per 61.350	Y
61.349	Closed vent system requirements?	61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y
	Control device requirements?	61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)?	61.349(a)(1)(i) required	Y
	How is leak-tightness of the closed vent system inspected?	61.349(a)(1)(i) initially & annually, per Method 21	Y
	Must by-pass lines either have a flow indicator or be secured closed with a car-seal/lock-&-key?	61.349(a)(1)(ii) required	Y
	Must all gauging & sampling devices be gas-tight, and closed except when in use?	61.349(a)(1)(iii) required	Y
	Must pressure-relief devices be closed and sealed during normal operations?	61.349(a)(1)(iv) required	Y
	What is required if the control device is an enclosed combustion unit?	61.349(a)(2)(i) reduce Total Organic Compounds \geq 95% or Total Organic Compound conc. \leq 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y
	What is required if the control device is a vapor recovery unit?	61.349(a)(2)(ii) reduce Total Organic Compounds \geq 95% or benzene \geq 98%	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What is required if the control device is an alternative technology?	61.349(a)(2)(iv) reduce TOC \geq 95% or benzene \geq 98%; and approved by the Administrator	Y
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device	Y
	What is required to demonstrate compliance of a control device that is not a flare?	61.349(c) Either engineering calculations or performance tests	Y
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator	Y
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects	Y
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y
	Must control devices be monitored?	61.349(h) required, per 61.354(c)	Y
61.350	When is a delay of repair allowed, and when must the delayed repair be complete?	61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y
61.354	Is monitoring required for control devices?	61.354(c) daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required, keep for the life of the control device	Y
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y
	Are records required for Method 21 leak inspections and repairs?	61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y
	Are records of startup/shutdown and monitoring data required for control devices?	61.356(j) for 61.349 required	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
Condition #11193	Applies to S-0605	Y	
Condition #10761	Applies to S-6200 through S-6219	Y	
Condition #18137	Throughput limits	N	

Table IV.F.1.5 Tanks (EFRT's MACT CC Records Cluster 11)

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks MACT CC Records Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.5 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks [MACT CC Records Cluster 11](#)

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks MACT CC Records Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length	N	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks MACT CC Records Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks [MACT CC Records Cluster 11](#)

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.5 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks MACT CC Records Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR RECORD KEEPING ONLY		
63.642(e) 63.654(f)	General recordkeeping requirements: 63.642(e) & 63. 654655 (i)(4) Time period for keeping records, unless specified otherwise.	Y	
63.655(i)	General recordkeeping requirements: 63.642(e) & 63. 654655 (i)(46) keep all reports and notification for the specified period of time. <u>Retain reported information for 5 years</u>	Y	
63.646(i) 63.652(b)	Implementation Plan: 63.646(i) & 63.652(b) Not required	Y	
63. 654655 (f)	Notification of Compliance Status report: 63. 654655 (f) later of next Periodic Report after compliance or January 15, 1999	Y	
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 63. 654655 (f)(1)(i)(A) with initial Notification of Compliance Status; <u>Jan. 15, 1999</u>	Y	
63. 654655 (h)	Report applicability for varying-use tanks? 63. 654655 (h)(6)(ii) with the initial NOC Status report	Y	
	Other (initial) Reports: 63. 654655 (h)(6)(ii) Report applicability for varying-use tanks? required with the initial Notification of Compliance Status report	Y	
63. 654655 (i) 63.123(a)	Applicability records: 63. 654655 (i)(1) Time period for keeping records of applicability determination, unless specified otherwise. 63.123(a) keep record readily accessible for the service life of the tank	Y	
63. 654655 (i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: 63. 654655 (i)(1) Records of dimensions & capacity required for nonexempt tanks? 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks [MACT CC Records Cluster 11](#)

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: Additional recordkeeping requirements for certain tanks.	63. 654655 (i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Throughput	Condition #2238	Applies to S-3100	Y
Condition #13597	Applies to S-1798	Y	
Condition #3697	Applies to S-1799	Y	
Condition #18137	Throughput limits	N	
Condition #25144	Applies to S-1292 and fugitives	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.6 Tanks (IFRT's [MACT CC Records Cluster 12](#))

Table IV.F.1.6 Tanks
 Source-specific Applicable Requirements

Internal Floating Roof Tanks [MACT CC Records Cluster 12](#)

S-1633

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
<u>8-5-112</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation</u>	<u>N</u>	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.6 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks [MACT CC Records Cluster 12](#)

S-1633

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement (only applies to S-0660 and S-6066)	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.6 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks [MACT CC Records Cluster 12](#)

S-1633

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (41/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.6 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks [MACT CC Records Cluster 12](#)

S-1633

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.6 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks MACT CC Records Cluster 12

S-1633

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03) REQUIREMENTS FOR RECORD KEEPING ONLY		
63.642(e) 63.654(i)(4)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63. 654655 (i)(4) keep all other records, retrievable within 24 hr	Y
63.655(i)	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63. 654655 (i)(4) required Retain reported information for 5 years	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y
63.654655 (f)	Notification of Compliance Status report:	63.654655 (f) later of next Periodic Report after compliance date or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654655 (f)(1)(i)(A) with initial Notification of Compliance Status; Jan-15-1999	Y
63.654655 (h)	Report applicability for varying-use tanks?	63.654655 (h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654655 (h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654655 (i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654655 (i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654655 (i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654655 (i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank.	Y
63.654655 (h)	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654655 (h)(1)(iv) determination of HAP content. Keep record readily accessible for service life of the tank.	Y
Condition #18137	Throughput limits	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks (FRT's Cluster 13)

**Table IV.F.1.7 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 13

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 13

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 13

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/02)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-403	Inspection Requirements for Pressure Relief Device	Y	
8-5-404	Certification	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 13

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40-cfr-63 subpart ee Refinery MACT	NESHAP for Petroleum Refineries (6/23/03) REQUIREMENTS FOR RECORD-KEEPING ONLY		
63.642(e) 63.654(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hours	Y
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(h) 63.9-(b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6-Ref. 63.9-(b)(2) Not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y
63.654(f)	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Cluster 13

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y	
Condition #18137	Throughput limits	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.9 Tanks (EFRT's [NSPS K](#) Cluster 17)

**Table IV.F.1.9 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks [NSPS K](#) and [MACT CC](#) Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.9 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length		
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.9 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 CFR 63 Subpart CC Refinery MACT CC	<p align="center">NESHAP for Petroleum Refineries (12/1/15) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (Note: Tanks are only subject to MACT Group 1 standards when the tanks meet the definition of a Group 1 storage vessel) Please refer to MACT CC requirements codified in Table IV.F.1.13 for EFRT Cluster 26</p>		
40 cfr 63 subpart cc Refinery MACT CC	<p align="center">NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS K</p>		
63.640(n)	Which rule governs for storage vessels subject to the control requirements of NSPS subpart K but subject to only recordkeeping under Refinery MACT?	63.640(n)(6) NSPS subpart K	Y
40 cfr 60 NSPS Subpart K	<p align="center">Petroleum Liquids Storage Vessels (10/17/00) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</p>		

IV. Source-Specific Applicable Requirements

Table IV.F.1.9 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.112(a)	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	60.112(a)(1) Y	
	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	60.112(a)(1) OK alone OK alone OK alone	Y
60.113(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.113(a) keep record as long as the tank is in that service	Y
60.113(a) 60.113(b) 60.113(c) 60.113(d)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.113(a) – (d) internal diameter & TVP of the stored product, if capacity > 40,000 gallons and TVP > 1.0 keep record as long as the tank is in that service	Y
	True vapor pressure (TVP) determination for applicability:	60.113(b) & (c) true vapor pressure (not maximum TVP), & thus could be based on the annual average temperature	Y
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction	Y
	Report (document) having initially achieved compliance?	60.7(a)(3) notification of startup within 15 days, but no required to certify compliance	Y
	Notification of Compliance Status report:	60.7(a)(3) notification within 15 days after startup	Y
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	60.7(a)(4) notification 60 days or as soon as practicable before the change	Y
NSPS 40 cfr part 60 Subpart A	New Source Performance Standards GENERAL PROVISIONS		
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) keep all reports & notifications	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.9 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	General recordkeeping requirements: keep all reports and notification for the specified period of time. 60.7(f) required	Y	
60.14(g)	Achieve compliance for: <i>New Tanks</i> (or tanks that become affected as a result of a change or modification)? 60.14(g) up to 180 days after modifications (otherwise prior to fill)	Y	
Condition #18137	Throughput limits	N	
Condition #21237	Notification requirement for S- 514 , S-3072, and S-3101 regarding pumping and piping capacities.	N	

Table IV.F.1.10 Tanks (EFRT's NSPS Kb and MACT CC Cluster 23)

Table IV.F.1.10 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, ~~S-3220~~ ~~S-3225~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.10 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	

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Table IV.F.1.10 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length		
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	

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Table IV.F.1.10 Tanks
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**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (41/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	

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Table IV.F.1.10 Tanks
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 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	

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**Table IV.F.1.10 Tanks
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**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, S-3220, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 CFR 63 Subpart CC Refinery MACT CC	<p><u>NESHAP for Petroleum Refineries (12/1/15)</u> <u>REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</u> (Note: Tanks are only subject to MACT Group 1 standards when the tanks meet the definition of a Group 1 storage vessel) <u>Please refer to MACT CC requirements codified in Table IV.F.1.13 for EFRT Cluster 26</u></p>		
40 cfr 63 subpart cc Refinery MACT CC	<p>NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</p>		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(1) NSPS subpart Kb	Y
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal?	63.640(n)(8)(i) yes	Y
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions?	63.640(n)(8)(ii) yes – up to 30 days, or empty the tank within 45 days	Y
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time?	63.640(n)(8)(iii) yes	Y

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 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report?	63.640(n)(8)(iv) yes	Y
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule?	63.640(n)(8)(v) yes	Y
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)?	63.640(n)(8)(vi) yes	Y
NSPS 40 cfr 60 Subpart Kb	Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
60.112b(a)	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	60.112b(a)(2)(i) Not Allowed OK w/rim-mounted secondary OK w/rim-mounted secondary	Y
	Must vapor-mounted rim seals be continuous on EFRs?	60.112b(a)(2)(i)(B) yes	Y
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	60.112b(a)(2)(ii) required	Y
	EFR well covers to be gasketed?	60.112b(a)(2)(ii) required	Y
	EFR vents to be gasketed?	60.112b(a)(2)(ii) required	Y
	EFR deck openings other than for vents to project into liquid?	60.112b(a)(2)(ii) required	Y
	EFR rim space vents to remain closed except when the pressure setting is exceeded?	60.112b(a)(2)(ii) required	Y
	EFR auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	60.112b(a)(2)(ii) required	Y
	EFR emergency roof drains to have seals covering at least 90% of the opening?	60.112b(a)(2)(ii) required	Y

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**Table IV.F.1.10 Tanks
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**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR guidepole wells to have a deck cover gasket and a pole wiper?	60.112b(a)(2)(ii) guidepole requirements are specified in FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	60.112b(a)(2)(ii) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y
	EFRT slotted guidepoles to have either an internal float or a pole sleeve?	60.112b(a)(2)(ii) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	60.112b(a)(2)(iii) yes	Y
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs?	60.112b(a)(2)(iii) exempt	Y
60.113b(b)	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied?	60.113b(b)(4)	Y
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days?	60.113b(b)(4)(iii)	Y
	Notification of Inspections: Are notifications of Inspections to demonstrate initial compliance required, for EFR seal gap measurements:	60.113b(b)(1) & (5) required notifications & reports per ongoing reports	Y
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal:	60.113b(b)(1)(i) every 5 years	Y
	Seal Gap Measurements: For new EFRTs:	60.113b(b)(1)(i) &(ii) measure gaps of both seals within 60 days after initial fill	Y

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Table IV.F.1.10 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 60.113b(1)(ii) annually	Y	
	Seal Gap Measurements: For EFRTs returned to affected service after 1 year or more of exempt service: 60.113b(1)(iii) measure gaps of both seals within 60 days	Y	
	MEASUREMENT CONDITIONS: Are EFR seal gap measurements to be made with the roof floating? 60.113b(2)(i) yes	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe? 60.113b(2)(ii) yes	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area? 60.113b(2)(iii) yes	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 60.113b(3) yes	Y	
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRTs: If unable to repair, empty the EFRT & remove from service? 60.113b(4) make repairs within 45 days 60.113b(4) yes, within 45 days	Y	
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width: 60.113b(4)(i) 10 in ² /ft.diameter 1.5 inches	Y	
	Shall there be no holes, tears, or openings in the EFR seals? 60.113b(4)(i) & (ii) yes	Y	
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 60.113b(4)(i)(A) yes	Y	
	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width: 60.113b(4)(ii)(B) 1 in ² /ft.diameter 0.5 in.	Y	

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 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 60.113b(b)(4)(ii)(B)	Y	
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 60.113b(b)(4)(iii) 1 extension of 30 days, if needed	Y	
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need? 60.113b(b)(4)(iii) required	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 60.113b(b)(4)(iii) document the reason for the extension	Y	
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 60.113b(b)(5) required	Y	
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 60.113b(b)(6) each time the tank is emptied & degassed	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 60.113b(b)(6) internal inspection not required for initial compliance	Y	
	EFRT REPAIRS: Repair of defects if the tank is empty? 60.113b(b)(6)(i) prior to refilling	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 60.113b(b)(6)(ii) required	Y	
60.115b	Record keeping for inspections: keep inspection reports as specified 60.115b keep records	Y	
60.115b(b)	EFRT report to include: 60.115b(b)(1) description of control equipment	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 60.115b(b)(2) required within 60 days of inspection	Y	

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 S-3213, S-3214, ~~S-3220~~, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Records of EFR inspection reports: 60.115b(b)(3) EFR seal gap measurements	Y	
	Periodic Reports: 60.115b(b)(4) Report EFR seal gap inspections required within 30 days of inspection when there is out-of-compliance?	Y	
	Periodic Reports: 60.115b(b)(4) Report of EFR inspection failures to include: date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y	
60.116b(a)	Applicability records: 60.116b(a) Time period for keeping records of applicability determination, unless specified otherwise. keep records	Y	
60.116b(b)	Applicability records: 60.116b(b) Records of dimensions & capacity required for nonexempt tanks? required keep records readily accessible for the life of the tank	Y	
60.116b(c)	Applicability records: 60.116b(c) Additional recordkeeping requirements for certain tanks. internal diameter & TVP of the stored product, if capacity \geq 20,000 gallons and TVP \geq 2.2, or capacity \geq 40,000 gallons and TVP \geq 0.51 keep record as long as the tank is in that service	Y	
60.116b(e)	True vapor pressure (TVP) 60.116b(e) determination for applicability: maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
60.7(a)	Initial Notification: 60.7(a)(1) Is initial notification of the source's notification within 30 days after existence required? beginning construction.	Y	
60.7(a) 60.115b	Report (document) having initially 60.7(a)(3) achieved compliance? 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y	
	Notification of Compliance Status 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] report: notification within 15 days after startup	Y	
	Initial Notification: 60.7(a)(4) Is initial notification required if tank notification 60 days or as soon as becomes affected only as a result of a practicable before the change modification?	Y	

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External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~,
 S-3213, S-3214, S-3220, ~~S-3225~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7(f)	General recordkeeping requirements: 60.7(f) Time period for keeping records, keep all reports & notifications unless specified otherwise.	Y	
	General recordkeeping requirements: 60.7(f) keep all reports and notification for required the specified period of time.	Y	
60.14(g)	Achieve compliance for: 60.14(g) New Tanks (or tanks that become up to 180 days after modifications affected as a result of a change or (otherwise prior to fill) modification)?	Y	
Condition 2856	Applies to S-399	N	
Condition #6660	Applies to S-3189	Y	
Condition #6661	Applies to S-3190	Y	
Condition #7583	Applies to S-3191	Y	
Condition #8253	Applies to S-3193	Y	
Condition #13467	Applies to S-3196	Y	
Condition #825213535	Applies to S-3197	Y	
Condition #8715	Applies to S-3198	Y	
Condition #13364	Applies to S-3202	Y	
Condition #13008	Applies to S-3201	Y	
Condition #12139	Applies to S-3213	Y	
Condition #12104	Applies to S-3214	Y	
Condition #18137	Throughput limits	N	
Condition #18702	Throughput limits	Y	
Condition #17553	<u>Applies to S-3220</u>	<u>Y</u>	

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IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks (IFRT's [NSPS Kb and MACT CC Cluster 24](#))

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb and MACT CC Cluster 24](#)

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length	N	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 CFR 63 Subpart CC Refinery MACT CC	<p align="center">NESHAP for Petroleum Refineries (12/1/15) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS (Note: Tanks are only subject to MACT Group 1 standards when the tanks meet the definition of a Group 1 storage vessel) Please refer to MACT CC requirements codified in Table IV.F.1.14 for IFRT Cluster 27</p>		

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03/12/1/15) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 63.640(n)(8)(i) yes	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 63.640(n)(8)(ii) yes – up to 30 days, or empty the tank within 45 days	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 63.640(n)(8)(iii) yes	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 63.640(n)(8)(iv) yes	Y	
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 63.640(n)(8)(v) yes	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)?	63.640(n)(8)(vi) yes Y	
NSPS 40 cfr 60 Subpart Kb	Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
60.112b(a)	IFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	60.112b(a)(1)(i) yes Y	
	Temporary exemption from operating requirements while the internal floating roof is landed on its support legs?	60.112b(a)(1)(i) exempt Y	
	IFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	60.112b(a)(1)(ii) OK w/rim-mounted secondary OK alone OK alone Y	
	Must IFR vapor-mounted rim seals be continuous?	60.112b(a)(1)(ii)(B) required Y	
	IFR deck openings other than for vents to project into liquid?	60.112b(a)(1)(iii) required Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	60.112b(a)(1)(iv) required Y	
	IFR access hatch & gauge float well covers to be bolted closed?	60.112b(a)(1)(iv) required Y	
	IFR well covers to be gasketed?	60.112b(a)(1)(iv) & (ix) required Y	
	IFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	60.112b(a)(1)(iv) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve? 60.112b(a)(1)(iv) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	IFR auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed? 60.112b(a)(1)(v) required	Y	
	IFR vents to be gasketed? 60.112b(a)(1)(v) & (vi) required	Y	
	IFR rim space vents to remain closed except when the pressure setting is exceeded? 60.112b(a)(1)(vi) required	Y	
	IFR sample penetration to be a sample well with a slit-fabric seal over 90% of the opening? 60.112b(a)(1)(vii) required	Y	
	IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover? 60.112b(a)(1)(viii) OK for columns	Y	
60.113b(a)	IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 60.113b(a)(1) & (4) prior to initial fill, then every 10 years, include each emptying/degassing	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For IFR/CFR internal inspections: 60.113b(a)(1) & (5) required- notifications & reports per ongoing reports	Y	
	Shall there be no holes, tears, or openings in the IFR seals? 60.113b(a)(1), (2), &(4) required	Y	
	Is there to be no liquid on the internal floating roof? 60.113b(a)(2) required	Y	
	Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): 60.113b(a)(2) annually after initial fill	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	IFRT/CFRT REPAIRS: Time allowed for repair of defects found during in-service inspections:	60.113b(a)(2) make repairs within 45 days	Y
	IFRT/CFRT REPAIRS: If unable to repair, empty the tank & remove from service?	60.113b(a)(2) yes, within 45 days	Y
	EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT/CFRT cannot be emptied within 45 days?	60.113b(a)(2) 1 extension of 30 days, if needed	Y
	Periodic Reports: IFR/CFR report to include prior request for 30-day extension, w/ documentation of need?	60.113b(a)(2) required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR:	60.113b(a)(2) document the reason for the extension	Y
	OPTION: Does this rule allow an internal inspection every 5 years to replace both inspections noted above, if the IFR/CFR is equipped with a sec. Seal?	60.113b(a)(3) & (4) yes	Y
	IFRT/CFRT REPAIRS: Repair of defects if the tank is empty?	60.113b(a)(4) prior to refilling	Y
	Notification of Inspections: Is 30-day notice required for internal inspections of IFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	60.113b(a)(5) required	Y
60.115b	Record keeping for inspections: keep inspection reports as specified	60.115b keep records	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.115b(a)	IFRT/CFRT report to include: 60.115b(a)(1) description of control equipment	Y	
	Records of IFR & CFR inspection reports: 60.115b(a)(2) all IFR inspections	Y	
	Periodic Reports: Report of IFR/CFR inspections that find out-of-compliance? 60.115b(a)(3) & (4) required within 30 days for in-service inspections (not required for out-of-service inspections)	Y	
	Periodic Reports: Report of IFR/CFR inspection failures to include: 60.115b(a)(3) & (4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y	
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) keep records	Y	
60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 60.116b(b) required keep record readily accessible for the life of the tank	Y	
60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks. 60.116b(c) internal diameter & TVP of the stored product, if capacity \geq (20,000 gallons) 75 cubic meters and TVP \geq (2.2 psia) 5.0 kPa , or capacity \geq (40,000 gallons) 151 cubic meters and TVP \geq (0.51 psia) 3.5 kPa . Keep record as long as the tank is in that service.	Y	
60.116b(e)	True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
NSPS 40 cfr 60 Subpart A	New Source Performance Standards GENERAL PROVISIONS		

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 24

S-1635, S-1637, [S-3202](#), [S-3225](#), [S-3228](#), S-3229, [S-3230](#), [S-3231](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction	Y
	Report (document) having initially achieved compliance?	60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y
	Notification of Compliance Status report:	60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup	Y
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	60.7(a)(4) notification 60 days or as soon as practicable before the change	Y
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) keep all reports & notifications	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	60.7(f) required	Y
60.14(g)	Achieve compliance for: New tanks (or tanks that become affected as a result of a change or modification)?	60.14(g) up to 180 days after modifications (otherwise prior to fill)	Y
Condition #15671	Applies to S-1635	Y	
Condition 1069	Applies to S-1637	N	
Condition #18137	Throughput limits	N	
Condition #18702	Applies to S-3225 and fugitives	N	
Condition #25037	Applies to S-3229 and fugitives	YN	

IV. Source-Specific Applicable Requirements

Table IV.F.1.11 Tanks

Source-specific Applicable Requirements

Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24

S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #25848	Applies to <u>S-3230-3228</u> and fugitives	N	
<u>Condition #25913</u>	<u>Applies to S-3231 and fugitives</u>	<u>N</u>	
<u>Condition #13364</u>	<u>Applies to S-3202</u>	<u>N</u>	

Table IV.F.1.12 Tanks (FRT's Wastewater Cluster 25)

Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-306	Requirements for approved Emission Control System	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency $\geq 95\%$	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	

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**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-502.1	Annual source test for approved emission control systems and abatement devices	N	
8-5-502.2	Tank degassing and cleaning abatement devices	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	

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**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-403	Inspection requirements for pressure relief devices	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03) (12/1/15) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(1) NSPS subpart Kb	Y
<u>NSPS 40 cfr 60 Subpart Kb</u>	<u>Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE</u>		

IV. Source-Specific Applicable Requirements

Table IV.F.1.12 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.110b(d)(3)	Exemption for frac tanks (S-6220 through S-6239) based on EPA Region 5 letter to Flint Hills Resources as it pertains to Pine Bend Refinery in St. Paul, MN dated 9/2/04		
NSPS 40 cfr 60 Subpart Kb	Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE Citations applicable to S-3110 and S-3111		
60.112b(a)	Closed vent system Performance requirements:	60.112b(a)(3)(i) no detectable emissions (i.e., < 500 ppm)	Y
	Control device Performance requirements:	60.112b(a)(3)(ii) at least 95% efficient, or a flare per 60.18	Y
	Control device (flare) Compliance demonstration:	60.112b(a)(3)(ii) flare to be designed as specified in 60.18 (c)	Y
60.113b(c)	Control device (other than flare) Compliance demonstration:	60.113b(c)(1) operating plan, efficiency demonstration & parameter(s) to be monitored	Y
	Other (initial) Reports: For control device other-than flare?	60.113b(c)(1) submit operating plan for approval, with the initial notification	Y
	Control device (other than flare) Operating requirements:	60.113b(c)(2) operate and monitor per the plan	Y
60.113b(d)	Control device (flare) Operating requirements:	60.113b(d) operate per general control device requirements in 60.18 (e) & (f)	Y
60.115b	Record keeping for inspections: keep inspection reports as specified	60.115b keep records	Y
60.115b(c)	Record keeping for tanks routed to a control device other than a flare:	60.115b(c) operating plan & records of parametric monitoring data	Y
60.115b(d)	Other (initial) Reports: For a flare?	60.115b(d)(1) submit results of compliance demonstration within 6 months of start-up	Y
	Record keeping for tanks routed to a flare:	60.115b(d)(2) periods of operation in which the pilot flame is absent	Y
	Periodic Reports: Tanks routed to a flare:	60.115b(d)(3) semiannual reports of all periods in which the pilot flame was absent	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.116b(a) keep records	Y
60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	60.116b(b) required keep record readily accessible for the life of the tank.	Y
60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b(c) internal diameter & TVP of the stored product, if capacity \geq (20,000 gallons) 75 cubic meters and TVP \geq (2.2 psia) 5.0 kPa , or capacity \geq (40,000 gallons) 151 cubic meters and TVP \geq (0.51 psia) 3.5 kPa . Keep record as long as the tank is in that service.	Y
60.116b(e)	True vapor pressure (TVP) determination for applicability:	60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y
60.116b(g)	Applicability determination: Miscellaneous recordkeeping exemptions:	60.116b(g) keeping record of TVP is not required if tank is routed to a compliant control device	Y
NSPS 40 cfr 60 Subpart A	New Source Performance Standards GENERAL PROVISIONS		
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction	Y
	Report (document) having initially achieved compliance?	60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y
	Notification of Compliance Status report:	60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup	Y
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	60.7(a)(4) notification 60 days or as soon as practicable before the change	Y
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) keep all reports & notifications	Y

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Table IV.F.1.12 Tanks
Source-specific Applicable Requirements

Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	General recordkeeping requirements: 60.7(f) keep all reports and notification for required the specified period of time.	Y	
60.14(g)	Achieve compliance for: 60.14(g) New Tanks (or tanks that become up to 180 days after modifications affected as a result of a change or (otherwise prior to fill) modification)?	Y	
Wastewater Requirements for S-6220 through S-6239 (from Wastewater Cluster 60b)			
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR WASTEWATER STREAMS	Y	
63.641	What is a Refinery MACT Group 1 wastewater stream? 63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y	
63.647	What does Refinery MACT require for Group 1 wastewater streams? 63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern? 63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y	
	If a flare is used as a control device 63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	Y	
	Clarification with respect to violations 63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654655	Which recordkeeping and reporting requirements govern? 63.654655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	

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Table IV.F.1.12 Tanks
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Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 cfr 61 Subpart FF	Benzene Waste Operations (12/04/03) REQUIREMENTS FOR CONTAINERS	Y	
61.345	When is this type of WMU subject to these requirements? 61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with total annual Benzene \geq 10 Mg/yr	Y	
	Install, operate, and maintain a cover over the WMU. 61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y	
	Route vapors through a closed vent system to a control device? 61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y	
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Demonstrate no detectable emissions using Method 21? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Inspection per Method 21 required initially, and annually thereafter? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.345(a)(1)(ii) required for the container 61.345(a)(3) Not required for the enclosure	Y	
	Are there requirements that are unique to this type of WMU? 61.345(a)(2) Load using a submerged fill pipe	Y	
	Are there conditions for which vapors are not required to be routed to a control device? 61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y	
	What is required for WMUs not routed to a control device? 61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y	

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Table IV.F.1.12 Tanks
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Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.345(b) required for the container 61.345(b) required for the enclosure	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.345(c) required for the container 61.345(c) required for the enclosure	Y	
	Delay of repair allowed? 61.345(c) yes, for the container, per 61.350 61.345(c) yes, for the enclosure, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce Total Organic Compounds \geq 95% or Total Organic Compound conc. \leq 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y	
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce Total Organic Compounds \geq 95% or benzene \geq 98%	Y	

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**Table IV.F.1.12 Tanks
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Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must the closed vent system & control device operate at all times when waste is in the WMU? 61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device	Y	
	What is required to demonstrate compliance of a control device that is not a flare? 61.349(c) either engineering calculations or performance tests	Y	
	Can performance tests be required for control devices? 61.349(e) perform performance tests of the control device upon the request of the Administrator	Y	
	What visual inspections are required for the closed vent system and control device? 61.349(f) inspect initially & annually for visible defects	Y	
	If defects are found during an inspection, how quickly must they be repaired? 61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y	
	Must control devices be monitored? 61.349(h) required, per 61.354(c)	Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies? 61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices? 61.354(c) daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders? 61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	

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Table IV.F.1.12 Tanks
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Fixed Roof Tanks Wastewater Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required keep for the life of the control device	Y
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y
	Are records required for Method 21 leak inspections and repairs?	61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y
	Are records of startup/shutdown and monitoring data required for control devices?	61.356(j) for 61.349 required	Y
	Are records of monitoring data required for systems maintained under negative pressure?	61.356(m) for 61.343 – 61.347 required	Y
Condition #10761	Applies to S-6220 through S-6239	Y	
Condition #18137	Throughput limits	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.13 Tanks (EFRT's [MACT CC Cluster 26](#))

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks [MACT CC Cluster 26](#)

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, [S-1292](#), S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, [S-1518](#), S-1687, S-1688, [S-1843](#), S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, [S-3100](#), S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

External Floating Roof Tanks MACT CC Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, S-1292, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, S-1518, S-1687, S-1688, S-1843, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3100, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length		
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	

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Table IV.F.1.13 Tanks
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-502.1	Annual source test for approved emission control systems and abatement devices	N	
8-5-502.2	Tank degassing and cleaning abatement devices	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	

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Table IV.F.1.13 Tanks
Source-specific Applicable Requirements

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (11/27/02)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	

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Table IV.F.1.13 Tanks
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External Floating Roof Tanks MACT CC Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	

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**Table IV.F.1.13 Tanks
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S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-604	Determinations of Applicability	Y	
40 CFR 63 Subpart CC Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS <u>(Note: Tanks are only subject to MACT Group 1 standards when the tanks meet the definition of a Group 1 storage vessel)</u>		
63.642(e) 63.654655(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654655(i)(46) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654655(i)(46) required	Y
63.646(a) 63.119(c)	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	63.646(a) 63.119(c)(1)(i) – (1)(iii) Not Allowed OK w/rim-mounted secondary OK w/rim-mounted secondary	Y
	Must vapor-mounted rim seals be continuous on EFRs?	63.646(a) 63.119(c)(1)(iii) yes	Y
63.646(a) 63.119(c) 63.120(b)	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	63.646(a) 63.119(c)(1)(iii) 63.120(b)(4) yes	Y
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	63.646(a) 63.119(c)(3) & (c)(4) yes	Y
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs?	63.646(a) 63.119(c)(3) exempt	Y
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings:	63.646(a) & 63.120(b) each time the tank is emptied & degassed	Y
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days	63.646(a) & 63.120(b) up to 2 extensions of 30 days each, if needed	Y
	Notification of Inspections: Are notifications of Inspections to demonstrate initial compliance required, For EFR seal gap measurements:	63.646(a) 63.120(b)(1) & (9) required- notifications & reports per ongoing reports	Y

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Table IV.F.1.13 Tanks
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External Floating Roof Tanks MACT CC Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal:	63.646(a) 63.120(b)(1)(i) every 5 years	Y
	Seal Gap Measurements: For existing EFRTs in compliance by the compliance date:	63.646(a) 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to the compliance date	Y
	Seal Gap Measurements: For new EFRTs:	63.646(a) 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to initial fill	Y
	Seal Gap Measurements: For affected EFRTs with a mechanical-shoe or liquid-mounted primary-only rim seal, prior to installing a sec. Seal; PRIOR TO COMPLIANCE: UPON COMPLIANCE:	63.646(a) 63.120(b)(1)(ii) annual primary seal gap measurements 63.646(a) 63.120(b)(1)(ii) measure gaps of both seals within 90 days	Y
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal:	63.646(a) 63.120(b)(1)(iii) annually	Y
	Seal Gap Measurements: For EFRTs returned to affected service after 1 yr or more of exempt service:	63.646(a) 63.120(b)(1)(iv) measure gaps of both seals within 90 days	Y
	MEASUREMENT CONDITIONS: Are EFR seal gap measurements to be made with the roof floating?	63.646(a) 63.120(b)(2)(i) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe?	63.646(a) 63.120(b)(2)(ii) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area?	63.646(a) 63.120(b)(2)(iii) yes	Y

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	63.646(a) 63.120(b)(3) & (4) yes	Y
	EFR Primary Seal Gap Inspection Criteria: Maximum area: Maximum gap width:	63.646(a) 63.120(b)(3) 10 in ² /ft.diameter 1.5 inches	Y
	EFR Secondary Seal Gap Inspection Criteria: Maximum area: Maximum gap width:	63.646(a) 63.120(b)(4) 1 in ² /ft. diameter 0.5 inches	Y
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid?	63.646(a) 63.120(b)(5)(i) Yes	Y
	Shall there be no holes, tears, or openings in the EFR seals?	63.646(a) 63.120(b)(5)(ii) & (6)(ii) yes	Y
	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied?	63.646(a) 63.120(b)(7)(i) up to 30 additional days 63.120(b)(7)(ii) yes, within 45 days of determining unsafe	Y
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: If unable to repair, empty the EFRT & remove from service?	63.646(a) 63.120(b)(8) make repairs within 45 days 63.120(b)(8) yes, within 45 days	Y
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days?	63.646(a) 63.120(b)(8) up to 2 extensions of 30 days each, if needed	Y
	Notification of Inspections: Are notifications of Inspections to demonstrate initial compliance required, For EFR internal inspections:	63.646(a) 63.120(b)(10) internal inspections not required for initial compliance	Y
	EFRT REPAIRS: Repair of defects if the tank is empty?	63.646(a) 63.120(b)(10)(i) prior to refilling	Y

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.646(c)	EFR well covers to be gasketed? 63.646(c) not required at existing sources	Y	
	EFR vents to be gasketed? 63.646(c) not required at existing sources	Y	
	EFR deck openings other than for vents to project into liquid? 63.646(c) not required at existing sources	Y	
	EFR access hatch & gauge float well covers to be bolted closed? 63.646(c) not required at existing sources	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 63.646(c) not required at existing sources	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 63.646(c) not required at existing sources	Y	
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 63.646(c) not required at existing sources	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 63.646(c) not required at existing sources	Y	
63.646(f)	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 63.646(f)(1) required	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 63.646(f)(2) required	Y	
	EFR auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed? 63.646(f)(3) required	Y	
63.646(i) 63.652(b)	Implementation Plan: 63.646(i) & 63.652(b) Not required	Y	
63.646(l) 63.654655(h)	Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? 63.646(l) 63.654655(h)(2)(i)(eC)&(ii) yes	Y	
63.654655(f)	Report (document) having initially achieved compliance? 63.654655(f) later of next Periodic Report after achieving compliance or 1/15/99	Y	
	Notification of Compliance Status report: 63.654655(f) later of next Periodic Report after compliance or January 15, 1999	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63. 654655 (f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
	EFRT report to include:	63. 654655 (f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls	Y
63. 654655 (g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63. 654655 (g) begin Sept 13, 1999 then semiannual	Y
	Periodic Reports: Report of EFR inspection failures to include:	63. 654655 (g)(2)—(4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need?	63. 654655 (g)(3)—(2)—(4) prior request is not required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63. 654655 (g)(23)(i) 63. 654655 (g)(3)(ii) document the reason for the extension	Y
	Periodic Reports: Report EFR seal gap Inspections if there was No out-of-compliance?	63. 654655 (g)(3)(i) Not required	Y
	Periodic Reports: Report EFR seal gap Inspections when there Is out-of-compliance?	63. 654655 (g)(3)(i) required within 60 days after each semiannual period	Y
63.654(h) 63.646(a) 63.120(b)	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	63. 654655 (h)(2)(i) 63.646(a) 63.120(b)(10) required	Y
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements?	63. 654655 (h)(2)(ii) 63.646(a) 63.120(b)(9) required	Y
	Report applicability for varying-use tanks?	63. 654655 (h)(6)(ii) with the initial NOC Status report	Y

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Table IV.F.1.13 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks MACT CC Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654655(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654655(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654655(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654655(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654655(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
63.654655(i) 63.123(c) 63.654655(d) 63.123(e)	Record keeping for inspections: Keep inspection reports as specified	63.654655(i)(1) 63.123(c) – (e) all inspections	Y
	Records of EFR inspection reports:	63.654655(i)(1) 63.123(d) all inspections	Y
63.655.4(i) 63.123 (g)	Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay.	63.654655(i)(1) 63.123 (g) required	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654655(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Condition #8503	Applies to S-0679	Y	
Condition #10908	Applies to S-1489	Y	
Condition #10909	Applies to S-0992	Y	
Condition #11025	Applies to S-3106	Y	
Condition #17470	Applies to S-3126	Y	
Condition #15038	Applies to S-3133	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.13 Tanks
Source-specific Applicable Requirements

External Floating Roof Tanks [MACT CC Cluster 26](#)

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, [S-1292](#), S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, [S-1518](#), S-1687, S-1688, [S-1843](#), S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, [S-3100](#), S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #13859	Applies to S-3134	Y	
Condition #18137	Throughput limits	N	
Condition #21237	Notification requirement for S-1514 , 3072, and S-3101 regarding pumping and piping capacities.	N	
Condition #22641	Applies to S-1296, S-1514	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks (IFRT's [subject to MACT CC and not subject to NSPS Cluster 27](#))

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks [subject to MACT CC and not subject to NSPS Cluster 27](#)

S-1289, ~~S-1645~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	N	
8-5-320.3	Openings in the floating roof except floating roof legs	N	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	N	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	N	
8-5-320.6	Emergency roof drain	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	N	
8-5-321.3.1	Geometry of shoe	N	
8-5-321.3.2	Gaps for welded tanks	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	No holes, tears, or other openings in the secondary seal	N	
8-5-322.2	Insertion of probes	N	
8-5-322.3	Gap length		
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal shall not be attached to primary seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-502.1	Annual source test for approved emission control systems and abatement devices	N	
8-5-502.2	Tank degassing and cleaning abatement devices	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (41/27/026/5/03)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
40 CFR 63 Subpart CC Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
63.642(e) 63.654655(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654655(i)(46) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654655(ii)(46) required	Y
63.646(a) 63.119(b)	IFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	63.646(a) 63.119(b)(1) & (b)(2) yes	Y

IV. Source-Specific Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Temporary exemption from operating requirements while the internal floating roof is landed on its support legs? 63.646(a) 63.119(b)(1) exempt	Y	
	IFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: 63.646(a) 63.119(b)(3)(i) – (3)(iii) OK w/rim-mounted secondary OK alone OK alone	Y	
	Must IFR vapor-mounted rim seals be continuous? 63.646(a) 63.119(b)(3)(iii) required	Y	
63.646(a) 63.120(a)	Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): 63.646(a) & 63.120(a) annually after initial fill or compliance	Y	
	IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 63.646(a) & 63.120(a) at least every 10 years, including each emptying/degassing	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For IFR/CFR internal inspections: 63.646(a) 63.120(a)(2)(ii) & (3) internal inspection not required for initial compliance	Y	
	OPTION: Does this rule allow an internal inspection every 5 years to replace both inspections noted above, if the IFR/CFR is equipped with a sec. Seal? 63.646(a) 63.120(a)(3)(i) yes	Y	
	Is there to be no liquid on the internal floating roof? 63.646(a) 63.120(a)(4) required	Y	
	Are there to be no IFR rim seal gaps that are visible from the tank top? 63.646(a) 63.120(a)(4) required	Y	
	Shall there be no holes, tears, or openings in the IFR seals? 63.646(a) 63.120(a)(4) & (7) required	Y	
	IFRT/CFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: 63.646(a) 63.120(a)(4) make repairs within 45 days	Y	
	IFRT/CFRT REPAIRS: If unable to repair, empty the tank & remove from service? 63.646(a) 63.120(a)(4) yes, within 45 days	Y	

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT/CFRT cannot be emptied within 45 days?	63.646(a) 63.120(a)(4) up to 2 extensions of 30 days each, if needed	Y
	IFRT/CFRT REPAIRS: Repair of defects if the tank is empty?	63.646(a) 63.120(a)(7) prior to refilling	Y
63.646(c)	IFR well covers to be gasketed?	63.646(c) not required at existing sources	Y
	IFR vents to be gasketed?	63.646(c) not required at existing sources	Y
	IFR deck openings other than for vents to project into liquid?	63.646(c) not required at existing sources	Y
	IFR access hatch & gauge float well covers to be bolted closed?	63.646(c) not required at existing sources	Y
	IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover?	63.646(c) not applicable at existing sources	Y
	IFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	63.646(c) not required at existing sources	Y
	IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve?	63.646(c) not required at existing sources	Y
63.646(f)	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	63.646(f)(1) required	Y
	IFR rim space vents to remain closed except when the pressure setting is exceeded?	63.646(f)(2) required	Y
	IFR Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	63.646(f)(3) required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) not required	Y
63.646(l) 63.654655(h)	Notification of Inspections: Is the State or local authority allowed to waive the notification requirements?	63.646(l) 63.654655(h)(2)(i)(c)&(ii) yes	Y
63.654655(f)	Report (document) having initially achieved compliance?	63.654655(f) later of next Periodic Report after achieving compliance or 1/15/99	Y

IV. Source-Specific Applicable Requirements

Table IV.F.1.14 Tanks
Source-specific Applicable Requirements

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Notification of Compliance Status report: 63.654655(f) later of next Periodic Report after compliance or January 15, 1999	Y	
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 63.654655(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y	
	IFRT/CFRT report to include: 63.654655(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls	Y	
63.654655(g)	Report of periodic inspections, etc. AFTER documenting initial compliance? 63.654655(g) begin Sept 13, 1999, then semiannual	Y	
	Periodic Reports: Report of IFR/CFR inspections that find out-of-compliance? 63.654655(g)(2) —(4) required within 60 days after each semiannual period	Y	
	Periodic Reports: Report of IFR/CFR inspection failures to include: 63.6554(g)(2) —(4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y	
	Periodic Reports: IFR/CFR report to include prior request for 30-day extension, w/ documentation of need? 63.6554(g)(2) —(4) prior request is not required	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR: 63.6554(g)(2)(i) 63.654655(g)(2)(ii) document the reason for the extension	Y	
63.654655(h) 63.646(a) 63.120(a)	Notification of Inspections: Is 30-day notice required for internal inspections of IFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 63.654655(h)(2)(i) & (ii) 63.646(a) 63.120(a)(5)&(6) required	Y	
	Report applicability for varying-use tanks? 63.654655(h)(6)(ii) with the initial NOC Status report	Y	
	Other (initial) Reports: Report applicability for varying-use tanks? 63.654655(h)(6)(ii) required with the initial Notification of Compliance Status report	Y	
63.654655(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654655(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y	

IV. Source-Specific Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654655(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654655(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
63.654655(i) 63.123(c) 63.654655(d) 63.123(e)	Record keeping for inspections: keep inspection reports as specified	63.654655(i)(1) 63.123(c) – (e) all inspections	Y
	Records of IFR & CFR inspection reports:	63.654655(i)(1) 63.123(c) & (e) all inspections	Y
63.654655(i) 63.123 (g)	Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay.	63.654655(i)(1) 63.123 (g) required	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654655(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Condition #21307	Applies to S-1645		
Condition #18137	Throughput limits	N	

Table IV.G.1.1 Tanks (Treatment Unit Cluster 10)

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 CFR 63 Subpart CC Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03) 12/1/15 REQUIREMENTS FOR WASTEWATER STREAMS		

IV. Source-Specific Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y
	If a flare is used as a control device	63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	Y
	Clarification with respect to violations	63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654655	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
NESHAP 40 CFR part 61 Subpart FF	Benzene Waste Operations (12/04/03) REQUIREMENTS FOR TREATMENT PROCESSES		
61.349	Must the closed vent system operate with no detectable emissions (< 500 ppmw)?	61.349(a)(1)(i) required	Y
	How is leak-tightness of the closed vent system inspected?	61.349(a)(1)(i) initially & annually, per Method 21	Y
	Must all gauging & sampling devices be gas-tight, and closed except when in use?	61.349(a)(1)(iii) required	Y
	Must pressure-relief devices be closed and sealed during normal operations?	61.349(a)(1)(iv) required	Y
	What is required if the control device is an enclosed combustion unit?	61.349(a)(2)(i) reduce Total Organic Compounds \geq 95% or Total Organic Compound conc. \leq 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y
	What is required if the control device is a vapor recovery unit?	61.349(a)(2)(ii) reduce Total Organic Compounds \geq 95% or benzene \geq 98%	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the Waste Management Unit requires shutdown of the control device	Y
	What is required to demonstrate compliance of a control device that is not a flare?	61.349(c) either engineering calculations or performance tests	Y
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator	Y
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects	Y
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y
	Must control devices be monitored?	61.349(h) required, per 61.354(c)	Y
61.354	What monitoring is required for the waste streams exiting the treatment process?	61.354(a) monthly sampling to measure the exiting benzene concentration or continuous parametric monitoring; except for streams controlled under certain other rules per 61.348(d)	Y
	Is monitoring required for control devices?	61.354(c) daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y
61.355	How is the total annual benzene quantity from facility waste (Total Annual Benzene) determined?	61.355(a) – (c) as specified herein	Y
	Procedure for performance testing of treatment processes	61.355(e) for 61.348(a)(1)(ii) to demonstrate compliance w/ 99% benzene removal	Y
	Procedure for performance testing of treatment processes	61.355(f) for 61.348(a)(1)(iii) to demonstrate compliance with 99% benzene destruction by combustion	Y
	Procedure for performance testing of a wastewater treatment system	61.355(g) for 61.348(b) to demonstrate compliance with requirements for combined waste streams	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Procedure for determining specified benzene quantity (Benzene Quantity)	61.355(k) for 61.342(e) to demonstrate compliance w/ benzene mass limit	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for each waste stream, whether controlled or not?	61.356(b) required, identifying whether controlled	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	61.356(b)(1) required	Y
	Are records required for other waste streams that may be exempt from treatment and controls on the basis of low flow rate or other mass limits?	61.356(b)(1), b(4) – (6) required, including Benzene Quantity determination and other characteristics to document exemptions from controls	Y
	Are records required for wastes shipped off-site for treatment?	61.356(c) for 61.342(f) required	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required documenting the performance of treatment processes?	61.356(e) for 61.348 required, keep for the life of the Waste Management Unit	Y
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required, keep for the life of the control device	Y
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y
	Are records required for Method 21 leak inspections and repairs?	61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y
	Are records of startup/shutdown and monitoring data required for WMUs?	61.356(i) for 61.348 required for each Waste Management Unit used to meet benzene treatment requirements	Y
	Are records of startup/shutdown and monitoring data required for control devices?	61.356(j) for 61.349 required	Y
	Are records of monitoring data required for systems maintained under negative pressure?	61.356(m) for 61.343 – 61.347 required	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #4650	Permit conditions as follows:		
Part 5	Applies to S-3200/A-3200 A3200 minimum temp of 1000 F with continuous temperature monitoring		
Part 6	Applies to S-3200/A-3200 A-3200 vent gas to be vented into flame zone at all times		
Part 7	Applies to S-3200/A-3200 S-3200 continuous flow monitor/recorder		
Part 8	Applies to S-3200/A-3200 S-3200 continuous pressure monitor/recorder		
Part 9	Applies to S-3200/A-3200 S-3200 pump concentration limit 100 ppm	Y	
Part 10	Applies to S-3200/A-3200 Pump seals with water seal flush systems as specified	Y	
Part 11	Applies to S-3200/A-3200 S-3200 quarterly inspection and maintenance pumps and valves	Y	
Part 12	Applies to S-3200/A-3200 S-3200 maintain records	Y	
Part 13	Applies to S-3200/A-3200 S-3200 initial source test	Y	
Part 14	Applies to S-3200/A-3200 S-3200 source test requirement	Y	
Part 15	Applies to S-3200/A-3200 S-3200 source test acceptance	Y	
Part 16	Applies to S-3200/A-3200 and S-3192 S-3200 fugitive count- final	Y	
Condition #18137	Throughput limits	N	

IV. Source-Specific Applicable Requirements

Table IV.G.1.2 Wastewater (Process Drains Cluster 20d)

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to [NSPS QQQ*](#)

[*Chevron has clarified process drains were not constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987.](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04)			
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration Or Temperature	N		
8-8-308	Standards for Junction Box	Y		
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N		
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries; comply with 8-8-313.1 or 8-8-313.2.	N		
8-8-313.1	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Equip each uncontrolled wastewater collection system component with water seal or equivalent, minimize any uncontrolled collection system component that is not vapor tight.	N		
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N		
8-8-314	New Wastewater Collection System Components at Petroleum Refineries; equip new components with water seal or equivalent control	N		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N		
8-8-502	Wastewater Critical Organic Compound Concentration Or Temperature Records	N		
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N		
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (6/158/29/94)			
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to NSPS QQQ*

*Chevron has clarified process drains were not constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Exemption from controls for low wastewater temperature (records are required) 112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y	
8-8-501 8-8-502	How long are records to be kept? 501 & 502 keep all records	Y	
	Are records required for units exempt from controls due to low concentration of pollutants? 502 for 112 required	Y	
	Are records required for units exempt from controls due to low temperature of the influent wastewater? 502 for 112 required	Y	
8-8-308	Standards for Junction Boxes Any junction box equipped with solid, gasketed fixed cover, or a solid manhole cover. Openings are allowed if the total open area is below 12.6 in ² , and vent pipes at least 3 ft in length	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT <u>CC</u>	NESHAP for Petroleum Refineries (6/23/03/12/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream? 63.641 if Total Annual Benzene ≥ 10 Mg/yr, then each wastewater stream with flow rate ≥ 0.02 liters/min and benzene concentration ≥ 10 ppmw and not exempt from controls under 61 Subpart FF	Y	
63.647	What does Refinery MACT require for Group 1 wastewater streams? 63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern? 63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to NSPS QQQ*

*Chevron has clarified process drains were not constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<p>If a flare is used as a control device 63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670</p>	Y	
	<p>Clarification with respect to violations 63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation</p>	Y	
63.654655	<p>Which recordkeeping and reporting requirements govern? 63.654655(a) recordkeeping and reporting shall be per 61 Subpart FF</p>	Y	
NESHAP 40 CFR 61 Subpart FF	<p>Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS exempt FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]</p>	Y	

IV. Source-Specific Applicable Requirements

Table IV.G.1.3 Wastewater (Process Drains Cluster 20q)

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

[Process Drains Subject to NSPS QQQ](#)

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
[S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater](#)

[and](#)

[At the following that don't have source #'s:](#)

[LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber](#)
[and](#)

[Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:](#)

[S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant \(SDA\), S-4253 TKC Isocracker Plant,](#)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds--WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration Or Temperature	N	
8-8-308	Standards for Junction Box	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries; comply with 8-8-313.1 or 8-8-313.2.	N	
8-8-313.1	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Equip each uncontrolled wastewater collection system component with water seal or equivalent, minimize any uncontrolled collection system component that is not vapor tight.	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Petroleum Refineries; equip new components with water seal or equivalent control	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-502	Wastewater Critical Organic Compound Concentration Or Temperature Records	N	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (6/158/29/94)		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	Y	
	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]		

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y	
8-8-501 8-8-502	How long are records to be kept?	501 & 502 Keep all records	Y	
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y	
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y	
8-8-308	Standards for Junction Boxes Any junction box equipped with solid, gasketed fixed cover, or a solid manhole cover. Openings are allowed if the total open area is below 12.6 in2, and vent pipes at least 3 ft in length		Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources (2/16/00, refer to NSPS Subpart QQQ below)	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03/12/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	If a flare is used as a control device 63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	<u>Y</u>	
	Clarification with respect to violations 63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654655	Which recordkeeping and reporting requirements govern? 63.654655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
NESHAP Subpart FF	Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS exempt FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]	Y	
NSPS 40 CFR 60 Subpart QQQ	Petroleum Refinery Wastewater Systems REQUIREMENTS FOR INDIVIDUAL DRAIN SYSTEMS(10/17/00) Requirements shown are for compliance with 60.692-2, and do not address compliance with 60.693-1.		

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-1	Where are the requirements for controlling air emissions specified?	60.692-1(a) affected facilities shall comply with the specified control requirements or alternatives [specified in 60.692-1 to 60.692-5 and 60.693-1 to 60.693-2]	Y
	When is this type of WMU subject to these requirements?	60.692-1(a) At all times except during startup, shutdown, or malfunction	Y
	How is compliance determined?	60.692-1(b) compliance will be determined by review of records, reports, test results, & inspections	Y
60.692-2	What are the requirements of the alternative?	60.692-2 Drains must have a water seal; Junction Boxes must be covered & any vent pipe ≥ 3 ft long & ≤ 4 in. diameter; and Sewer Lines must be covered or enclosed; and all are subject to visual inspections initially and at specified intervals thereafter, with first efforts at repair within 15 days, except drains within 24 hr	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H₂SO₄ Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H₂S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H₂S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H₂SO₄ Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-6	When is a delay of repair allowed, and when must the delayed repair be complete?	60.692-6 Delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown [records required per 60.697(e)]	Y
60.692-7	When must facilities achieve compliance?	60.692-7 & 60.14(g) Up to 180 days after modifications, unless delayed to avoid shutdown (otherwise prior to initial startup)	Y
60.696	What initial inspections are required?	60.696(a) visually inspect prior to initial use	Y
60.697	How long are records to be kept?	60.697(a) keep all records	Y
	Are records required for visual inspections and repairs?	60.697(b) & (g) required only when defects are found	Y
	Are records required for delay of repair?	60.697(e) required, with signature	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

Process Drains Subject to NSPS QQQ

S-4235 Diesel Hydrotreater Plant S-4226 FCC GHT, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4354 Butamer Plant, S-4356 TAME/SHU Plant, S-6015 D&R Area Flare
S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and
At the following that don't have source #'s:
LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformate splitter, caustic scrubber and
Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:
S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	60.697(f) required, keep for the life of the equipment	Y
60.698	Is an initial facility status report required?	60.698(b) required, within 60 days after startup	Y
	What additional reports are required for facilities subject to controls?	60.698(b) & (c) semiannual certification that all inspections have been performed, with documentation of corrective actions and monitoring excursions	Y
	What additional reports are required for facilities subject to controls?	60.698(e) notification & documentation, if compliance is delayed per 60.692-7	Y

IV. Source-Specific Applicable Requirements

Table IV.G.1.4 Wastewater (Separator Cluster 30c)

**Table IV.G.1.4 Wastewater
 Source-specific Applicable Requirements**

Separator Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (~~S-6250 in Table IV.G.1.8~~)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS REQUIREMENTS FOR OIL-WATER SEPARATORS (6/158/29/94)		
8-8-114 8-8-501	Wastewater stream allowed to bypass treatment	114 & 501 wastewater is allowed to bypass the oil-water separator & DAF on days that are not ozone excess days [but records are required]	Y
8-8-302	Are there conditions for which vapors are not required to be routed to a control device?	302.4 if equipped with a fixed cover that meets certain criteria, then routing to a control device is not required	Y
	What is required for WMUs not routed to a control device?	302.4 if capacity is ≥ 300 gal/min then routing to a control device is not required if the fixed cover has no leaks > 1,000 ppm, subject to semiannual inspections	Y
8-8-303	Install, operate, and maintain a cover over the WMU.	303 required	Y
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)?	303 required	Y
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use?	303 required	Y
	Must all gauging & sampling devices be gas-tight, and closed except when in use?	303 required	Y
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries		N
8-8-501	Are records required for bypassed wastewater?	501 for 114 required	Y
8-8-501	How long are records to be kept?	501 keep all records	Y
8-8-503	Are records required for visual inspections and repairs?	503 required for each inspection	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.4 Wastewater
 Source-specific Applicable Requirements**

Separator Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (~~S-6250 in Table IV.G.1.8~~)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records required for Method 21 leak inspections and repairs? 503 required for each inspection	Y	
8-8-504 8-8-603	Procedure for detecting emissions 504 & 603 per Method 21	Y	
8-8-602	What is required to demonstrate compliance of a control device that is not a flare? 602 measurement of emissions	Y	
	Can performance tests be required for control devices? 602 frequency of testing is not specified	Y	
8-8-603 8-8-504	Demonstrate no detectable emissions using Method 21? 603 & 504 required	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS REQUIREMENTS FOR OIL-WATER SEPARATORS (9/15/04)		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-301	Standards for Wastewater Separators Greater than 760 Liters per Day and Smaller than 18.9 Liters per Second	Y	
8-8-302.3	Standards for Wastewater Separators Larger than or Equal to 18.9 Liters per Second: A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-302.6	Standards for Wastewater Separators Larger than or Equal to 18.9 Liters per Second: Roof seals, fixed covers, access doors and other openings shall be inspected initially and semiannually thereafter to ensure that they are vapor tight. Non vapor tight leaks shall be minimized within 24 hours and repaired within 7 days.	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries; comply with 8-8-313.1 or 8-8-313.2.	N	
8-8-313.1	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Equip each uncontrolled wastewater collection system component with water seal or equivalent, minimize any uncontrolled collection system component that is not vapor tight.	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Petroleum Refineries; equip new components with water seal or equivalent control	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.4 Wastewater
 Source-specific Applicable Requirements**

Separator Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (~~S-6250 in Table IV.G.1.8~~)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y
	If a flare is used as a control device	63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	<u>Y</u>
	Clarification with respect to violations	63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63. 654 655	Which recordkeeping and reporting requirements govern?	63. 654 655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
NESHAP 40 CFR 61 Subpart FF	Benzene Waste Operations (12/04/03) OIL-WATER SEPARATORS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]		

IV. Source-Specific Applicable Requirements

**Table IV.G.1.4 Wastewater
 Source-specific Applicable Requirements**

Separator Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (~~S-6250 in Table IV.G.1.8~~)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #18137	Applies to S-4148, S-4413, S-4414	N	
Condition 24085	Applies to S-4148 and A-32105	N	
Condition 26721	Applies to S-4413 and A-4413		

IV. Source-Specific Applicable Requirements

Table IV.G.1.5 Wastewater (Non-EFRT or IFRT Tanks Cluster 40b)

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
 S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration Or Temperature	N	
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-502	Wastewater Critical Organic Compound Concentration Or Temperature Records	N	
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS(6/158/29/94)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration And/Or Temperature	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-502	Wastewater Critical Organic Compound Concentration And/Or Temperature Records	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 CFR 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supereede supersede those in 61 Subpart FF	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	If a flare is used as a control device 63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	Y	
	Clarification with respect to violations 63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654655	Which recordkeeping and reporting requirements govern? 63.654655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
NESHAP 40 CFR 61 Subpart FF	Benzene Waste Operations (12/04/03) REQUIREMENTS FOR TANKS		
61.343	When is this type of WMU subject to these requirements? 61.343(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene \geq 10 Mg/yr	Y	
	If not exempt from the control device requirements, are there alternative provisions for compliance? 61.343(a) Comply with 61.351	Y	
	Install, operate, and maintain a cover over the WMU. 61.343(a)(1) required (fixed roof)	Y	
	Route vapors through a closed vent system to a control device? 61.343(a)(1) required	Y	
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)? 61.343(a)(1)(i)(A) required	Y	
	Demonstrate no detectable emissions using Method 21? 61.343(a)(1)(i)(A) required	Y	
	Inspection per Method 21 required initially, and annually thereafter? 61.343(a)(1)(i)(A) required	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.343(a)(1)(i)(B) required	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.343(c) required	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
 S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.343(d) 45 days allowed	Y	
	Delay of repair allowed? 61.343(d) yes, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce Total Organic Compounds \geq 95% or Total Organic Compound conc. \leq 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y	
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce Total Organic Compounds \geq 95% or benzene \geq 98% or comply with limit of 500 ppmv VOC or 10 ppmv benzene	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce TOC \geq 95% or TOC conc. \leq 20 ppmv or minutes residence time & temperature of 0.5 sec at 760°C	Y	
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce TOC \geq 95% or benzene \geq 98%	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
 S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must the closed vent system & control device operate at all times when waste is in the WMU? 61.349(b)	Y	
	What is required to demonstrate compliance of a control device that is not a flare? 61.349(c)	Y	
	Can performance tests be required for control devices? 61.349(e)	Y	
	What visual inspections are required for the closed vent system and control device? 61.349(f)	Y	
	If defects are found during an inspection, how quickly must they be repaired? 61.349(g)	Y	
	Must control devices be monitored? 61.349(h)	Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350	Y	
61.353	What are the responsibilities associated with approval of alternative technologies? 61.353	Y	
61.354	Is monitoring required for control devices? 61.354(c)	Y	
	Are there control devices that do not require continuous data recorders? 61.354(d)	Y	
	May alternative parameters be monitored in lieu of those specified? 61.354(e)	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
 S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are inspections required for by-pass lines in closed vent systems? 61.354(f) inspect daily if using a flow indicator <u>or</u> inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure? 61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions 61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices 61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept? 61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)? 61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices? 61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs? 61.356(g) for 61.343 – 61.347 required only when defects are found	Y	
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
61.357	What additional reports are required for facilities subject to controls? 61.357(e) for 61.351 or 61.352, notification [per 61.07 or 61.10] of intent to use the specified alternative	Y	
Condition #4650	Permit conditions as follows:		
Part 1 and 5	Applies to S-3192 S-3192 POC emissions abated by A3200 by at least 98.5%	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b
S-3229**

**S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2 and 6	Applies to S-3192 S-3192 POC combined emissions not to exceed 1.0 lb/day	Y	
Part 3 and 7	Applies to S-3192 S-3192 Benzene combined emissions not to exceed 0.04 lbs/day	Y	
Part 4 and 8	Applies to S-3192 S-3192 Benzene combined liquid concentration not to exceed 1% (wt) (10000 ppm)	Y	
Condition #4650	Permit conditions as follows:	Y	
Part 1 and 5	Applies to S-3110 and S-3111; POC Emissions abated by 98.5% or more pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 2 and 6	Applies to S-3110 and S-3111; Abated POC emissions combined < 1.0 lb/day pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 3 and 7	Applies to S-3110 and S-3111; Abated Benzene emissions combined < 04 lb/day pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 4 and 8	Applies to S-3110 and S-3111; Benzene liquid concentration < 1.0 wt. pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200/A-3200	Y	
Condition #18137	Throughput Limits for S-3110, S-3111	N	
Condition #25037	Applies to S-3229 and fugitives	Y	

IV. Source-Specific Applicable Requirements

Table IV.G.1.6 Wastewater (FRT's Tanks Cluster 45e)

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06)		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Notice to the APCO	N	
8-5-111.2	Limited Exemption, Compliance before notification	N	
8-5-111.3	Limited Exemption, Continuous and quick filling, emptying and refilling	N	
8-5-111.4	Limited Exemption, Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Minimization of emissions	N	
8-5-111.6	Limited Exemption, Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-306	Requirements for approved Emission Control System (only applies to S-0660 and S-6066)	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if Abatement Device Used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements; applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valve gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement	N	
8-5-502.1	Annual source test for approved emission control systems and abatement devices	N	
8-5-502.2	Tank degassing and cleaning abatement devices	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	N	
8-5-604	Determinations of Applicability	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP BAAQMD Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS. REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS(11/27/026/5/03)		
8-5-111	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	111 yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	111.1 not required, but 3-day notice is required prior to removing tank from service	Y
8-5-112	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	112 yes, 7-day time limit	Y
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements:	112.4 7-day notice required prior to secondary seal replacement; no other notifications specified pertaining to seals	Y
8-5-320 8-5-321	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	321 Not Allowed 321.4, 320.1 OK w/rim- mounted secondary 321.3, 320.1 OK w/rim- mounted secondary	Y
8-5-320	EFR deck openings other than for vents to project into liquid?	320.2.1, 4.1 & 5.1 required	Y
	EFR vents to be gasketed?	320.2.2 required	Y
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	320.2.2 & 4.2 maximum gap = 1/8 in. (& drains not exempt)	Y
	EFR well covers to be gasketed?	320.2.2 & 4.2 required	Y
	EFR rim space vents to remain closed except when the pressure setting is exceeded?	320.3 required	Y
	EFR Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	320.3 required	Y
	EFR guidepole wells to have a deck cover gasket and a pole wiper?	320.5.2 required	Y
	EFRT slotted guidepoles to have either an internal float or a pole sleeve?	320.5.2 required	Y
	EFR emergency roof drains to have seals covering at least 90% of the opening?	320.6 required	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321 8-5-322	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	321 & 322 different procedure, limiting the % of circumference over which the gap can be exceeded	Y
	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied?	321 & 322 321 & 322	Y
	Shall there be no holes, tears, or openings in the EFR seals?	321.1 & 322.1 yes	Y
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid?	321.3 yes	Y
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width:	321.3 & 321.- 0.5 – 2.5 in.	Y
8-5-322	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width:	322 ≤ 5% w/gap > 0.02 in. 0.06 in.	Y
8-5-328 8-5-329	Temporary exemption from operating requirements while the external floating roof is landed on its support legs?	328 & 329 exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days	Y
8-5-401	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal:	401 every 5 years	Y
8-5-402	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal:	402 annually	Y
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings:	402 at the same schedule as the secondary seal	Y
8-5-404	Seal Gap Measurements: For new EFRTs:	404 submit certification of seal gap measurements upon installation	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Notification of Compliance Status report: 404 certification to be submitted upon installation for floating-roof rim seals	Y	
	EFRT report to include: 404 seal gap measurements	Y	
	Periodic Reports: Miscellaneous additional information to report: 404.3 annual certification of tank degassing equipment	Y	
8-5-405	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 405 required (at same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 405 required (at same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report of EFR inspection failures to include: 405 date of inspection, actual seal gap data, & determination of compliance	Y	
8-5-501	Applicability records: Additional recordkeeping requirements for certain tanks. 501 type of liquid stored & its TVP, for all nonexempt tanks	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 602 or 604 based on maximum (instantaneous) tank storage temperature	Y	
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) Collection and SEPARATOR Schemes (6/158/29/94)		
8-8-305	Slop oil vessels shall be equipped with a solid, gasketed, fixed cover with no cracks greater than 0.125 inches or an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70%, by weight	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) Collection and SEPARATOR Schemes(9/15/04)		

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-305	Slop oil vessels shall be equipped with a solid, gasketed, fixed cover with no cracks greater than 0.125 inches or an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70%, by weight	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 CFR 63 Subpart CC Refinery MACT CC	<p>NESHAP for Petroleum Refineries (12/1/15) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (Note: Tanks are only subject to MACT Group 1 standards when the tanks meet the definition of a Group 1 storage vessel) Please refer to MACT CC requirements codified in Table IV.F.1.13 for EFRT Cluster 26</p>		
NSPS 40 CFR 60 Subpart Kb	<p>Volatile Organic Liquid Storage Vessels (10/15/03) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (Note: S-3126, S-3127, and S-3128 are not subject to NSPS Kb because they were constructed, reconstructed, or modified before July 23, 1984)</p>		
60.112b(a)	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	60.112b(a)(2)(i) Not Allowed OK w/rim-mounted secondary OK w/rim-mounted secondary	Y
	Must vapor-mounted rim seals be continuous on EFRs?	60.112b(a)(2)(i)(B) yes	Y
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	60.112b(a)(2)(ii) required	Y
	EFR well covers to be gasketed?	60.112b(a)(2)(ii) required	Y
	EFR vents to be gasketed?	60.112b(a)(2)(ii) required	Y
	EFR deck openings other than for vents to project into liquid?	60.112b(a)(2)(ii) required	Y
	EFR rim space vents to remain closed except when the pressure setting is exceeded?	60.112b(a)(2)(ii) required	Y
	EFR Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	60.112b(a)(2)(ii) required	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR emergency roof drains to have seals covering at least 90% of the opening?	60.112b(a)(2)(ii) required Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper?	60.112b(a)(2)(ii) guidepole requirements are specified in FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) Y	
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	60.112b(a)(2)(ii) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve?	60.112b(a)(2)(ii) required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) Y	
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	60.112b(a)(2)(iii) yes Y	
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs?	60.112b(a)(2)(iii) exempt Y	
60.113b(b)	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied?	60.113b(b)(1) 60.113b(b)(1) Y	
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days?	60.113b(b)(1) Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements:	60.113b(b)(1) & (5) required notifications & reports per Ongoing Reports Y	
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal:	60.113b(b)(1)(i) every 5 years Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Seal Gap Measurements: For new EFRTs:	60.113b(b)(1)(i) &(ii) measure gaps of both seals within 60 days after initial fill	Y
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal:	60.113b(b)(1)(ii) annually	Y
	Seal Gap Measurements: For EFRTs returned to affected service after 1 yr or more of exempt service:	60.113b(b)(1)(iii) measure gaps of both seals within 60 days	Y
	MEASUREMENTS: Are EFR seal gap measurements to be made with the roof floating?	60.113b(b)(2)(i) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe?	60.113b(b)(2)(ii) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area?	60.113b(b)(2)(iii) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	60.113b(b)(3) yes	Y
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: If unable to repair, empty the EFRT & remove from service?	60.113b(b)(4) make repairs within 45 days 60.113b(b)(4) yes, within 45 days	Y
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width:	60.113b(b)(4)(i) 10 in ² /ft.diam. 1.5 in.	Y
	Shall there be no holes, tears, or openings in the EFR seals?	60.113b(b)(4)(i) & (ii) yes	Y
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid?	60.113b(b)(4)(i)(A) yes	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width:	60.113b(b)(4)(ii)(B) 1 in ² /ft.diameter 0.5 in.	Y
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	60.113b(b)(4)(ii)(B)	Y
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days?	60.113b(b)(4)(iii) 1 extension of 30 days, if needed	Y
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need?	60.113b(b)(4)(iii) required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	60.113b(b)(4)(iii) document the reason for the extension	Y
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap Measurements?	60.113b(b)(5) required	Y
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings:	60.113b(b)(6) each time the tank is emptied & degassed	Y
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections:	60.113b(b)(6) internal inspections not required for initial compliance	Y
	EFRT REPAIRS: Repair of defects if the tank is empty?	60.113b(b)(6)(i) prior to refilling	Y
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	60.113b(b)(6)(ii) required	Y
60.115b	Recordkeeping for inspections: Keep inspection reports as specified	60.115b keep records	Y
60.115b(b)	EFRT report to include:	60.115b(b)(1) description of control equipment	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance?	60.115b(b)(2) required within 60 days of inspection	Y
	Records of EFR inspection reports:	60.115b(b)(3) EFR seal gap measurements	Y
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance?	60.115b(b)(4) required within 30 days of inspection	Y
	Periodic Reports: Report of EFR inspection failures to include:	60.115b(b)(4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.116b(a) keep records	Y
60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	60.116b(b) required, keep record readily accessible for the life of the tank	Y
60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b(c) internal diameter & TVP of the stored product, if capacity \geq (20,000 gallons) 75 cubic meters and TVP \geq (2.2 psia) 5.0 kPa , or capacity \geq (40,000 gallons) 151 cubic meters and TVP \geq (0.51 psia) 3.5 kPa . Keep record as long as the tank is in that service	Y
60.116b(e)	True vapor pressure (TVP) determination for applicability:	60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y
NSPS40 cfr 60 Subpart A	New Source Performance Standards GENERAL PROVISIONS		
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction	Y
	Report (document) having initially achieved compliance?	60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y
	Notification of Compliance Status report:	60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	60.7(a)(4) notification 60 days or as soon as practicable before the change	Y
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) keep all reports & notifications	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	60.7(f) required	Y
60.14(g)	Achieve compliance for: New Tanks (or tanks that become affected as a result of a change or modification)?	60.14(g) up to 180 days after modifications (otherwise prior to fill)	Y
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
	Which provisions apply to wastewater tanks?	63.641 wastewater tanks are not storage vessels, but are subject to the wastewater provisions	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supersede those in 61 Subpart FF	Y
	If a flare is used as a control device	63.647(c) The flare shall meet the requirements of 61 Subpart FF or 63.670	<u>Y</u>
	Clarification with respect to violations	63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63. 65 4655	Which recordkeeping and reporting requirements govern?	63. 65 4655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
NESHAP 40 cfr 61 Subpart FF	Benzene Waste Operations (12/04/03) REQUIREMENTS FOR TANKS		
61.343	When is this type of WMU subject to these requirements?	61.343(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene \geq 10 Mg/yr	Y
	If not exempt from the control device requirements, are there alternative provisions for compliance?	61.343(a) Comply with 61.351	Y
61.351	What are the requirements of the alternative?	61.351 Floating roof or equivalent, in compliance with NSPS Subpart Kb	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required for floating roofs used as alternative control equipment in tanks?	61.356(k) for 61.351 required as per 60.115b [NSPS subpart Kb]	Y
61.357	What additional reports are required for facilities subject to controls?	61.357(e) for 61.351 or 61.352, notification [per 61.07 or 61.10] of intent to use the specified alternative	Y
	What additional reports are required for facilities subject to controls?	61.357(f) for 61.351, reports for floating roofs as per 60.115b [NSPS Kb]	Y
Condition #18137	Throughput limits		N
Condition #23262	Applies to S-3127		N
Part 1	Throughput		N
Part 2	Vapor Pressure Limit		N
Part 3	Benzene Limit		N
Part 4	Sampling of Vapor Pressure and Benzene		N
Part 5	Heating limitation		N

IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater
 Source-specific Applicable Requirements**

EFRT Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Recordkeeping	N	

Table IV.G.1.7 Wastewater (Bioreactor Cluster 50d)

**Table IV.G.1.7 Wastewater
 Source-specific Applicable Requirements**

Bioreactor Cluster 50d

S-4393 Bioreactor

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	N	
8-8-113	Secondary wastewater treatment processes or stormwater sewer systems that meet definition 8-8-206 and 8-8-216 are exemption from Sections 8-8-301, 302, 306, and 308.	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	N	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS(6/158/29/94)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	Y	
8-8-113	Secondary wastewater treatment processes or stormwater sewer systems that meet definition 8-8-206 and 8-8-216 are exemption from Sections 8-8-301, 302, 306, and 308.	Y	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.7 Wastewater
 Source-specific Applicable Requirements**

Bioreactor Cluster 50d

S-4393 Bioreactor

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/0312/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supereede <u>supersede</u> those in 61 Subpart FF	Y
	<u>If a flare is used as a control device</u>	<u>63.647(c)</u> <u>The flare shall meet the requirements of 61 Subpart FF or 63.670</u>	<u>Y</u>
	Clarification with respect to violations	63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63. 654 655	Which recordkeeping and reporting requirements govern?	63. 654 655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
NESHAP 40 cfr 61 Subpart FF	Benzene Waste Operations (12/04/03) SURFACE IMPOUNDMENTS exempt FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]	Y	
Condition #18137	Throughput limit for S-4393	N	
Condition #15698, part 1+	Applies to S-4393	Y	

Table IV.G.1.8 Wastewater (Containers Cluster 60b)

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration Or Temperature	N	
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-502	Wastewater Critical Organic Compound Concentration Or Temperature Records	N	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
SIP BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (6/15/8/29/94)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	Y	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)	N	
40 cfr 63 subpart cc Refinery MACT CC	NESHAP for Petroleum Refineries (6/23/03/12/1/15) REQUIREMENTS FOR WASTEWATER STREAMS		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene \geq 10 Mg/yr, then each wastewater stream with flow rate \geq 0.02 liters/min and benzene concentration \geq 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supereede <u>supersede</u> those in 61 Subpart FF	Y
	<u>If a flare is used as a control device</u>	63.647(c) <u>The flare shall meet the requirements of 61 Subpart FF or 63.670</u>	Y

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Clarification with respect to violations 63.647(ed) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654655	Which recordkeeping and reporting requirements govern? 63.654655(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
NESHAP 40 cfr 61 Subpart FF	Benzene Waste Operations REQUIREMENTS FOR CONTAINERS (12/04/03)		
61.345	When is this type of WMU subject to these requirements? 61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene \geq 10 Mg/yr	Y	
	Install, operate, and maintain a cover over the WMU. 61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y	
	Route vapors through a closed vent system to a control device? 61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y	
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Demonstrate no detectable emissions using Method 21? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Inspection per Method 21 required initially, and annually thereafter? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i)required for the enclosure	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.345(a)(1)(ii)required for the container 61.345(a)(3)Not required for the enclosure	Y	
	Are there requirements that are unique to this type of WMU? 61.345(a)(2) Load using a submerged fill pipe	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are there conditions for which vapors are not required to be routed to a control device? 61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y	
	What is required for WMUs not routed to a control device? 61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.345(b) required for the container 61.345(b) required for the enclosure	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.345(c) required for the container 61.345(c) required for the enclosure	Y	
	Delay of repair allowed? 61.345(c) yes, for the container, per 61.350 61.345(c) yes, for the enclosure, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	
	What is required if the control device is an alternative technology? 61.349(a)(2)(i)&(ii) refer to section in regulation	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device	Y	
	What is required to demonstrate compliance of a control device that is not a flare?	61.349(c) either engineering calculations or performance tests	Y	
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator	Y	
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects	Y	
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days final repair within 15 days; unless delay allowed per 61.350	Y	
	Must control devices be monitored?	61.349(h) required, per 61.354(c)	Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete?	61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices?	61.354(c) daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are inspections required for by-pass lines in closed vent systems? 61.354(f) inspect daily if using a flow indicator <u>or</u> inspect monthly if using car-seal/lock-&-key	Y	
61.355	Procedure for detecting emissions 61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices 61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept? 61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)? 61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices? 61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs? 61.356(g) for 61.343 – 61.347 required only when defects are found	Y	
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
Condition #12842	Permit condition applies as follows:		
Part 1	Applies to S-6250 abated by A0630 and A0631 S-6250 vented to abatement at all times	Y	
Part 2	Applies to S-6250 abated by A0630 and A0631 A-0630 Carbon Replacement Requirement	Y	
Part 3	Applies to S-6250 abated by A0630 and A0631 A-0631 Carbon Replacement Requirement	Y	
Part 4	Applies to S-6250 abated by A0630 and A0631 Limits apply to non-methane HC emissions	Y	

IV. Source-Specific Applicable Requirements

**Table IV.G.1.8 Wastewater
 Source-specific Applicable Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

**Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Tank abated by A-0630 and A-0631 Carbon Canisters~~, Vessels 1A & B and 2A and B
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Applies to S-6250 abated by A0630 and A0631 Carbon Monitoring Requirement	Y	
Part 6	Applies to S-6250 abated by A0630 and A0631 Recordkeeping for carbon life	Y	
Part 7	Applies to S-6250 abated by A0630 and A0631 Record-keeping	Y	
Part 8	Applies to S-6250 abated by A-0630 and A-0631 Recordkeeping	Y	
Condition #18137	Throughput Limit for S-6250	N	

Table IV.H.1.1 VOC (Cold Cleaners)

**Table IV.H.1.1 VOC Sources
 Source-specific Applicable Requirements**

Cold Cleaners

~~S-4420 (Exempt)~~, S-4426, ~~S-4427~~, S-4428

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 1	Organic Compounds – General Provisions (6/15/94)		
8-1-320	Surface Preparation, Clean-up, Coating, Ink, Paint Removal	Y	
8-1-321	Closed Containers for Spent or Fresh Organic Solvents	Y	
8-1-322	Spray Equipment Cleanup Limitation	Y	
BAAQMD Regulation 8 Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)		
8-16-118	Limited Exemption, Compounds with Low Volatility	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.1	Maintain Proper Working Order	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.1.1 VOC Sources
 Source-specific Applicable Requirements**

Cold Cleaners

S-4420 (Exempt), S-4426, S-4427, S-4428

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-501	Solvent Records	Y	
Condition #17527	Applies to S-4426, S-4427 , S-4428		
Part 1	High IBP (> 248 F) solvent restriction	Y	
Part 2	Annual solvent throughput limit	Y	
Part 3	Recordkeeping requirement	Y	
Condition #18137	Throughput Limits	N	

Table IV.H.2.1 VOC Sources (Fugitive Components Applicability Matrix)

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements
 Fugitive Components Applicability Matrix**

IV. Source-Specific Applicable Requirements

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	<u>NSPS Part 60 Subpart GGGa</u>	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	<u>NSPS Part 60 Subpart VVa</u>	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7
101-FCC Reactor		x	x		x				
102-MTBE Plant		x	x		X				
104-FCC Gas Recovery Unit		x	x		X				
105-FCC H2S Removal		x							
106-FCC Caustic Treating		x							
107-FCC CO Boiler and Misc		x							
108-DeIsobutanizer		x	x		x				
110-Propylene Polymer		x							
120-Pole Yard Tanks		x					x applicable components – only – Benzene service		x applicable components – only – Benzene service
121-LPG Spheres & Racks		x							
127-Sulfur Recovery Unit		x							
135/136 C5 SHU/TAME Plant		x	x		x				
137-H2SO4 Alkylation – new		x	x		x				
305-Boiler Shop Furnace		x							
401-Solvent Deasphalting (SDA)		x	x		x				
402-H2 Mfg. Plant A & B Train		x							
403-TKC Reaction/Distillation		x	x		x				
404-TKN Reaction		x							
405-IsoCracking Reaction		x							
406-Iso Distillation/Gas Recovery		x							
407-NH3-H2S Recovery		x							

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60 Subpart GGGa	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NSPS Part 60 Subpart VVa	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7
408-Isomax H2 Booster	x	x							
409-Isomax Tar Stripper		x							
410-Misc Utilities		x							
412-4 H2S Plant		x							
413-Flare Gas Recovery		x							
414-RLOP LNC Plant		x							
415-RLOP LNC Distillation Section		x	x		x				
416-RLOP LNHF Plant		x							
417-RLOP HNC Plant		x							
418-RLOP HNC Distillation Section		x							
419-RLOP HNHF Plant		x	x		x				
420-RLOP LNHF Distillation Section		x	x		x				
421-RLOP No 2 NH3-H2S Removal		x	x		x				
422-RLOP Gas Recovery Unit		x	x		x				
423-H2 Recovery Unit		x	x		x				
425-RLOP Flares		x							
429-H2S Mfg. Plant B Train		x							
708-Wax Rerun		x							
710-No 2 Wax Deoiler	x	x							
712-Thermofof Kiln		x							

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
Source-specific Applicable Requirements**

Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60 Subpart GGGa	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NSPS Part 60 Subpart VVa	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7
906-No 4 Rheniformer		x					x applicable components – only – Benzene service		x applicable components – only – Benzene service
950-Jet Hydrotreater		x							
951-Naphtha Hydrotreater		x					x applicable components – only – Benzene service		x applicable components – only – Benzene service
952-No 5 Rheniformer		x							
953-No 5 H2S & Flare Gas Recovery		x							
954-LSFO H2 Booster		x							
955-No 4 Crude Unit	x	x					x applicable components – only – Benzene service	x applicable components – only – FF service	x applicable components – only – Benzene service
956-Diesel Hydrotreater		x	x		x				
957-LSFO Utilities		x							
962-Penhex Isomerization		x	x		x		x applicable components – only – Benzene service		x applicable components – only – Benzene service
966-Naphtha Splitter		x	x		x				
967-Reformate Splitter		x	x		x		x applicable components – only – Benzene service		x applicable components – only – Benzene service
969-Caustic Scrubber		x	x		x				

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60 Subpart GGGa	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NSPS Part 60 Subpart VVa	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7
1001-Util Gen	x							x applicable components only-FF service	
1002-No 1 Power Plant	x	x							
1007-Cogen 1000 Train		x							
1008-Cogen 2000 Train		x							
1010-Cogen Utilities		x							
1603-No 1 Pump Station		x							
1604- Office & Main Tank Area, 2 & 7 Pump Station		x							
1611-RPH – Shore Tank Area	x	x							
1615-RPH-Ethyl Plant		x							
1617-RPH-General		x							
1618-RPH-21 Pump Station		x							
1619-RPH- 21A Pump Station		x							
1620-RPH-SP Hill, 13 Pump Station		x							
1621-RPH-SPMain Tank Field/Ethyl Roads		x							
1622-RPH-W. Main/Bldg., 18 Pump Station		x							
1624-RPH-Ethyl/Standard Roads, 17 Pump Station	x	x							
1626-CPH-Quarry Tanks, 8 Pump Station		x							

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60 Subpart GGGa	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NSPS Part 60 Subpart VVa	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7
1627-CPH-Separators, 24 Pump Station		x							
1440- Jet Additive Project Fugitive Source, at No.7 and No.21 Pump Station		x							
4449 and 4450 Hydrogen Plant		<u>x</u>		<u>x</u>		<u>x</u>			

IV. Source-Specific Applicable Requirements

Table IV.H.2.1 VOC Sources (Fugitive Components)

Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 18	Organic Compounds-Equipment Leaks (09/15/0412/16/15)		
8-18-100	General/Applicability	Y	
8-18-200	Definitions	Y	
8-18-301	General Standard	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure relief devices	Y N	
8-18-306	Non-repairable equipment	N	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-309	Open-ended valve or line shall be equipped with a cap, blind flange, plug or second valve which shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line	N	
8-18-310	Recurrent leaks of valves, pumps, compressors or PRDs found leaking more than 3 consecutive quarters, the inspection frequency shall change from quarterly to monthly	N	
8-18-311	Mass Emissions of total organic compounds shall not exceed five pounds per day except during any repair periods	N	
8-18-401	Inspection	N	
8-18-402	Identification	Y N	
8-18-403	Visual inspection schedule	Y N	
8-18-404	Alternate inspection schedule	Y N	
8-18-405	Alternate emission reduction plan	Y	
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent leak schedule for any valve, pump, compressor or pressure relief device found leaking in more than three consecutive quarters shall be changed from quarterly to monthly	N	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
8-18-503	Quarterly Reports	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8 Rule 18	Organic Compounds-Equipment Leaks (11/27/026/5/03)		
8-18-302	Valves	Y	
8-18-303	Pumps and compressors	Y	
8-18-304	Connections	Y	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual inspection schedule	Y	
8-18-404	Alternative inspection schedule	Y	
BAAQMD Regulation 8 Rule 28	Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05)	N	
8-28-100	General/Applicability	N	
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Releases – Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
SIP Regulation 8 Rule 28	Pressure Relief Valves at Petroleum Refineries and Chemical Plants (3/18/985/24/04)		
8-28-100	General/Applicability	Y	
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304	Repeat Releases – Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-405	Prevention Measures Procedures	Y	
NSPS Part 60 Subpart GGG; BAAQMD Regulation 10-59	Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After 1/4/83 and on or Before 11/7/06(6/2/08); BAAQMD Standards of Performance for New Stationary Sources (4/19/89)		
40 CFR 60.590	Applicability	Y	
60.592	Subject to provisions of Part 60, Subpart VV, sections 60.482.1 to 60.482.10	Y	
60.593	Exceptions	Y	
BAAQMD Regulation 10-59	Incorporates by reference 40 CFR 60 Subpart GGG	Y	
NSPS Part 60 Subpart QQQ; BAAQMD Regulation 10 Rule 69	Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (10/17/00); BAAQMD Standards of Performance for New Stationary Sources (12/20/95) [see Wastewater Cluster 20q for QQQ exemption requirements]	Y	
BAAQMD Regulation 10 Rule 69	Incorporates by reference 40 CFR 60 Subpart QQQ	Y	
60.690	Applicability and designation of affected facility	Y	
60.692-1	Standards: General	Y	
60.692-2	Standards: Individual drain systems	Y	
60.692-3	Standards: Oil water separators	Y	
60.692-4	Standards: Aggregate facilities	Y	
60.692-5	Standards: Control vent systems and control devices	Y	
60.692-6	Standards: Delay of repair	Y	
60.692-7	Standards: Delay of compliance	Y	
60.693-1	Alternative standards for individual drain systems	Y	
60.693-2	Alternative standards for oil water separators	Y	
60.694	Permission to use alternative means of emission limitation	Y	
60.695	Monitoring of operations	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.697	Recordkeeping requirements	Y	
60.698	Reporting requirements	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Part 60 Subpart VV; BAAQMD Regulation 10 Rule 52	Standards of Performance for Equipment Leaks of VOC In The Synthetic Organic Chemicals Manufacturing Industry For Which Construction, Reconstruction, Or Modification Commenced After 1/5/81 and on or Before 11/7/06 (Fugitive Emission Sources) (6/2/08); BAAQMD Standards of Performance for New Stationary Sources (12/20/95)		
60.480	Applicability	Y	
60.482-1	Standards: General Standards	Y	
60.482-2	Standards: Pumps in light liquid service Standards:		
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-1(c) and (f), 60.482-2(d), (e), or (f)	Y	
60.482-2(a)(2)	Weekly visual inspection of each pump, except for 60.482-1(f)	Y	
60.482-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-2(c)	Pump leak repair period	Y	
60.482-2(d)	Requirements for Dual-Mechanical seal pump	Y	
60.482-2(e)	No detectable emission designation: <500 ppm	Y	
60.482-2(f)	Requirements for Closed Vent Systems	Y	
60.482-2(g)	Pumps unsafe to monitor	Y	
60.482(h)	Monitoring pumps located within the boundary of an unmanned plant site	Y	
60.482-3	Standards: Compressor Standards	Y	
60.482-4	Standards: Requirements for Pressure Relief Devices in gas/vapor service	Y	
60.482-4(a)	Pressure relief valve (gas/vapor) < 500 ppm above background	Y	
60.482-5	Standards: Requirements for Sampling connection systems	Y	
60.482-6	Standards: Requirements for Open-ended valves or lines	Y	
60.482-7	Standards: Valves in gas/vapor service and in light liquid service. Standards:	Y	
60.482-7(b) and (c)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring until not detected for 2 successive months	Y	
60.482-7(d)	Valve leak repair period	Y	
60.482-7(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
60.482-7(g)	Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-8	<u>Standards:</u> Pumps and Valves in heavy liquid service, pressure relief devices in light liquid or and heavy liquid service and connectors, follow one of the procedures if evidence of a potential leak is found:	Y	
60.482-8(a)(1)	Monitor equipment within 5 days of detection and comply with 60.482-8(b) through (d); or	Y	
60.482-8(a)(2)	Eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.	Y	
60.482-8(b)	Air measurement >10,000 ppm indicates a leak		
<u>60.482-9</u>	<u>Standards: Delay of repair</u>	<u>Y</u>	
<u>60.482-9(a)</u>	<u>Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit.</u>	<u>Y</u>	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9(c)	Delay of repair for valves is only allowed under certain circumstances	Y	
<u>60.482(d)</u>	<u>Delay of repair for pumps</u>		
60.482-9(d)(1)	Only dual-mechanical seal pumps <u>with barrier fluid system</u> qualify for delay of repair	Y	
60.482-9(d)(2)	Pump leaks must be repaired as soon as practicable, but within 6 months after the leak was detected	Y	
<u>60.482-9(e)</u>	<u>Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.</u>	<u>Y</u>	
<u>60.482-9(f)</u>	<u>When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition.</u>	<u>Y</u>	
60.482-10	<u>Standards: Requirements for Closed-vent systems and control devices</u>	Y	
<u>60.482-10(a)</u>	<u>Owners or operators of closed vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section.</u>	<u>Y</u>	
<u>60.482-10(b)</u>	<u>Vapor recovery systems (for example, condensers and absorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent.</u>	<u>Y</u>	
60.482-10(c)	Combustion devices <u>designed and operated with a</u> VOC ≥95% destruction efficiency or an exit concentration of 20 ppmvd @ 3% O ₂ (whichever is less stringent), or residence time ≥0.75 seconds and ≥816°C	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-10(d)	Flares used to comply with this subpart shall comply with the requirements of §60.18.	<u>Y</u>	
60.482-10(e)	Owners or operators of control devices used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.	<u>Y</u>	
60.482-10(f)	Except as provided in paragraphs (i) through (k) of this section, each closed vent system shall be inspected according to the procedures and schedule specified in paragraphs (f)(1) and (f)(2) of this section for initial and annual inspection.	<u>Y</u>	
60.482-10(g)	Closed-vent systems leak \geq 500 ppm and visible leak indication. First attempt to repair leak (visible or \geq 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	Y	
60.482-10(h)	Delay of repair of a closed vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown.	<u>Y</u>	
60.482-10(i)	If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section.	<u>Y</u>	
60.482-10(j)	Any parts of the closed vent system that are designated, as described in paragraph (l)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section if they comply with the requirements specified in paragraphs (j)(1) and (j)(2) of this section	<u>Y</u>	
60.482-10(k)	Any parts of the closed vent system that are designated, as described in paragraph (l)(2) of this section, as difficult to inspect are exempt from the inspection requirements of paragraphs (f)(1)(i) and (f)(2) of this section if they comply with the requirements specified in paragraphs (k)(1) through (k)(3) of this section	<u>Y</u>	
60.482-10(l)	The owner or operator shall record the information specified in paragraphs (l)(1) through (l)(5) of this section.	<u>Y</u>	
60.482-10(m)	Closed vent systems and control devices used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.	<u>Y</u>	
60.483-1 – 60.483-2 8-18-404.1	If a process unit has 5 consecutive quarters with \leq2% of valves leaking at \geq10,000 ppm, then any individual valve which measures \leq100 ppm for 5 consecutive quarters may be monitored annually	Y	
60.483-1	Alternative standards for valves—allowable percentage of valves leaking	<u>Y</u>	
60.483-2	Alternative standards for valves—skip period leak detection and repair	<u>Y</u>	
60.484	Equivalence of means of emission limitation	Y	
60.485	Test Methods and Procedures	Y	
60.486	Record Keeping requirements	Y	

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**Table IV.H.2.1 VOC Sources
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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.487	Reporting requirements	Y	
60.488	Reconstruction	<u>Y</u>	
60.489	List of chemicals produced by affected facilities	<u>Y</u>	
NSPS Part 60 Subpart GGGa	Standards of Performance for Equipment Leaks of VOC In Petroleum Refineries For Which Construction, Reconstruction, Or Modification Commenced after 11/7/06 (6/2/08) For S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021 (Hydrogen Plant)		
60.590a	Applicability and designation of affected facility	<u>Y</u>	Post Modernizat ion
60.590a(a)(1)	The provisions of this subpart apply to affected facilities in petroleum refineries	<u>Y</u>	Post Modernizat ion
60.590a(a)(2)	A compressor is an affected facility	<u>Y</u>	Post Modernizat ion
60.590a(a)(3)	The group of all equipment within a process unit is an affected facility	<u>Y</u>	Post Modernizat ion
60.590a(b)	An affected facility that commences construction, reconstruction, or modification after November 7, 2006, is subject to the requirements of this subpart	<u>Y</u>	Post Modernizat ion
60.590a(c)	Changes that are not a modification	<u>Y</u>	Post Modernizat ion
60.590a(d)	Facilities subject to subpart VV, VVa, GGG, or KKK are excluded from this subpart	<u>Y</u>	Post Modernizat ion
60.590a(e)	Stay of standards. Includes definition of pProcess unit definition	<u>Y</u>	Post Modernizat ion
60.591a	Definitions	<u>Y</u>	Post Modernizat ion
60.592a	Standards – a compressor in hydrogen service is exempt from the provisions of this requirement per 60.593a(b)(1)	<u>Y</u>	Post Modernizat ion
60.592a(a)	Comply with the requirements of 60.482-1a to 60.482-10a as soon as practicable, but no later than 180 days after initial startup	<u>Y</u>	Post Modernizat ion
60.592a(b)	For a given process unit, may comply with requirements in 60.592a(b)(1), (2), and (3) as alternative to 60.482-7a:	<u>Y</u>	Post Modernizat ion

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**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.592a(b)(1)	-- Comply with 60.483-1a	<u>Y</u>	<u>Post Modernization</u>
60.592a(b)(2)	-- Comply with 60.483-2a	<u>Y</u>	<u>Post Modernization</u>
60.592a(b)(3)	-- Comply with Phase III provisions of 63.168 , exempt may elect to follow the provisions of 60.482-7a(f) instead of 63.168 for any valve that is designated as being leakless	<u>Y</u>	<u>Post Modernization</u>
60.592a(c)	Owner/operator may apply to the Administrator for a determination of equivalency for any means of emission limitation that achieves a reduction in emissions of VOC at least equivalent to the reduction in emissions of VOC achieved by the controls in this subpart. In doing so, comply with 60.484a	<u>Y</u>	<u>Post Modernization</u>
60.592a(d)	Comply with 60.485a , except as provided in 60.593a	<u>Y</u>	<u>Post Modernization</u>
60.592a(e)	Comply with 60.486a and 60.487a	<u>Y</u>	<u>Post Modernization</u>
60.593a	Exceptions	<u>Y</u>	<u>Post Modernization</u>
60.593a(b)(1)	Compressors in hydrogen service are exempt from the requirements in 60.592a if an owner/operator demonstrates that a compressor is in hydrogen service	<u>Y</u>	<u>Post Modernization</u>
60.593a(b)(2)	A compressor in hydrogen service is one that the percent hydrogen content can be reasonably expected always to exceed 50 percent by volume	<u>Y</u>	<u>Post Modernization</u>
60.593a(b)(3)(i)	May use engineering judgment to determine hydrogen content	<u>Y</u>	<u>Post Modernization</u>
60.593a(g)	Connectors in gas/vapor or light liquid service are exempt from the requirements in 60.482-11a , provided the owner or operator complies with 60.482-8a for all connectors, not just those in heavy liquid service	<u>Y</u>	<u>Post Modernization</u>
<u>NSPS Part 60 Subpart VVa</u>	<u>Standards of Performance for Equipment Leaks of VOC In The Synthetic Organic Chemicals Manufacturing Industry For Which Construction, Reconstruction, Or Modification Commenced After 11/7/06 (Fugitive Emission Sources) (6/2/08); Applicability specified by 40 CFR 60, Subpart GGGa For S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021 (Hydrogen Plant) Post-Modernization</u>		
60.480a	<u>Applicability and designation of affected facility</u>	<u>Y</u>	<u>Post Modernization</u>

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**Table IV.H.2.1 VOC Sources
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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.481a	Definitions	Y	Post Modernization
60.482-1a	General Standards: General	Y	Post Modernization
60.482-2a	Pump Standards: Pumps in light liquid service	Y	Post Modernization
60.482-2a(a)(1)	Monthly monitoring of each pump, except for 60.482-1a(c) and (f), 60.482-2a(d), (e), and (f) Monitored first time within 30 days after end of start up period. Exceptions identified.	Y	Post Modernization
60.482-2a(a)(2)	Weekly visual inspection of each pump, except for 60.482-1a(f)	Y	Post Modernization
60.482-2a(b)(1)	Leak Specification	Y	Post Modernization
60.482-2a(b)(1)(i)	≥5,000 ppm for all pumps handling polymerizing monomers	Y	Post Modernization
60.482-2a(b)(1)(ii)	≥2,000 ppm for all other pumps	Y	Post Modernization
60.482-2a(b)(2)	Dripping liquid follow procedure specified in either paragraph (b)(2)(i) or (ii) of this section.	Y	Post Modernization
60.482-2a(c)	Pump leak repair period as soon as practicable, but no later than 15 calendar days after identified. First repair no later than 5 calendar days.	Y	Post Modernization
60.482-2a(d)	Requirements for Dual-Mechanical seal pump	Y	Post Modernization
60.482-2a(e)	No detectable emission designation: <500 ppm exempted from requirements of paragraphs (a), (c), (f) and (d)	Y	Post Modernization
60.482-2a(f)	Requirements for Closed Vent Systems capable of capturing and transporting any leakage that meets applicable requirements exempt from (a) and (e)	Y	Post Modernization
60.482-2a(g)	Pumps unsafe to monitor exempt from monitoring and inspection requirements (a) and (d)(4)-(6) if certain criteria met.	Y	Post Modernization
60.482-3a	Compressor Standards: Compressors	Y	Post Modernization

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**Table IV.H.2.1 VOC Sources
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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-4a	Standards: Requirements for Pressure Relief Devices in gas/vapor service	<u>Y</u>	Post Modernization
60.482-4a(a)	Pressure relief valve (gas/vapor) must be operated with no detectable emissions < 500 ppm above background	<u>Y</u>	Post Modernization
60.482-5a	Standards: Requirements for Sampling connection systems	<u>Y</u>	Post Modernization
60.482-6a	Standards: Requirements for Open-ended valves or lines	<u>Y</u>	Post Modernization
60.482-7a	Standards: Valves in gas/vapor service and in light liquid service Standards:		Post Modernization
60.482-7a(b)	Air measurement >500 ppm or dripping liquid indicates leak	<u>Y</u>	Post Modernization
60.482-7a(a)-(c)	Monitor monthly unless 2 successive months <500 ppm, then monitor first month of each quarter. If leak >500 ppm is detected, resume monthly monitoring	<u>Y</u>	Post Modernization
60.482-7a(d)	Valve leak repair period as soon as practicable, no later than 15 days after detected. First attempt no later than 5 days.	<u>Y</u>	Post Modernization
60.482-7a(e)	Methods for first attempts or minimizing valve leaks	<u>Y</u>	Post Modernization
60.482-7a(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	<u>Y</u>	Post Modernization
60.482-7a(g)	Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	<u>Y</u>	Post Modernization
60.482-7a(h)	Difficult-to-monitor valve exemptions	<u>Y</u>	Post Modernization
60.482-8a(a)	Standard: Pumps, valves, and connectors in heavy liquid service, pressure relief devices in light and heavy liquid service, follow one of the procedures if evidence of a potential leak is found:	<u>Y</u>	Post Modernization
60.482-8a(a)(1)	Monitor equipment within 5 days of detection by 60.485a(b) and comply with 60.482-8a(b) through (d); or	<u>Y</u>	Post Modernization
60.482-8(a)(2)	Eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.	<u>Y</u>	Post Modernization

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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-9a(b)	<u>Repair may be delayed for isolated equipment and not in VOC service</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-9a(c)	<u>Delay of repair for valves and connectors is only allowed under certain circumstances</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-9a(d)(1)	<u>Only a dual-mechanical seal pumps system that includes a barrier fluid system is allowed for repair, and</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-9a(d)(2)	<u>Pump leaks must be repaired as soon as practicable, but not later than 6 months after the leak was detected</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-10a	Standards; Requirements for <u>Closed-vent systems and control devices</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-10a(c)	<u>Combustion devices designed and operated VOC ≥95% destruction efficiency or an exit concentration of 20 ppmvd @ 3% O₂ (whichever is less stringent), or residence time ≥0.75 seconds and ≥816°C</u>	<u>Y</u>	<u>Post Modernization</u>
60.482-10a(g)	<u>Closed-vent systems leak ≥ 500 ppm and/or by visible leak indication. First attempt to repair leak (visible or ≥ 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)</u>	<u>Y</u>	<u>Post Modernization</u>
60.483-1a 60.483-2a	Alternative Standards for valves allowable percentage of valve leaking and valves skip period leak detection & repair. If a process unit has 5 consecutive quarters with <2% of valves leaking at >500 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually	<u>Y</u>	<u>Post Modernization</u>
60.484a	<u>Equivalence of means of emission limitation</u>	<u>Y</u>	<u>Post Modernization</u>
60.485a	<u>Test Methods and Procedures</u>	<u>Y</u>	<u>Post Modernization</u>
60.486a	<u>Recordkeeping requirements</u>	<u>Y</u>	<u>Post Modernization</u>
60.487a	<u>Reporting requirements</u>	<u>Y</u>	<u>Post Modernization</u>
BAAQMD Regulation 10 Rule 52	Incorporates by reference 40 CFR 60 Subpart VV	Y	
NESHAP 40 CFR Part 61 Subpart J	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene (12/14/00)		
61.110	Applicability	Y	

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**Table IV.H.2.1 VOC Sources
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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.112	Subject to provisions of Part 61, Subpart V	Y	
NESHAP Part 61 Subpart FF; BAAQMD Regulation 11 Rule 12	National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90)		
61.340	Applicability and designation of sources	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Closed vent system and control device used to comply with standards of this subpart shall be properly designed, installed, operated, and maintained.	Y	
61.349(a)(1)(i)	Closed vent system designed to operate with no detectable emissions (<500 ppm) initially and annually thereafter .	Y	
61.349(a)(1)(iii)	All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.	Y	
61.349(a)(1)(iv)	For each closed-vent system, one or more devices which vent directly to the atmosphere may be used on the closed-vent system provided each device remains in a closed, sealed position during normal operations, except when the device needs to open to prevent physical damage or permanent deformation of the closed-vent system resulting from malfunction of the unit.	Y	
61.349(b)	Closed vent system and control device used to comply with this subpart shall be operated at all times when waste is placed in the WMU vented to the control device except when maintenance or repair of the WMU cannot be completed without a shutdown.	Y	
61.349(c)	Demonstration of compliance for control devices, other than flares	Y	
61.349(d)	Demonstration of compliance for flares	Y	
61.349(e)	Administrator may request performance test demonstration of control device at any time	Y	
61.349(f)	Each closed-vent system and control device shall be visually inspected initially and quarterly thereafter .	Y	
61.349(g)	If visible defects are observed, repair within 5 calendar days, as soon as practicable, but not later than 15 calendar days.	Y	
61.356(h)	Recordkeeping requirements: control device monitoring requirements per 61.354(c) .	Y	
61.357 (d)(6)	The owner/operator shall submit quarterly a certification that all of the required inspections have been carried out.	Y	
BAAQMD Regulation 11 Rule 12	Incorporates by reference 40 CFR 61 Subpart FF	N	
NESHAP 40 CFR Part 61 Subpart V; BAAQMD Regulation 11 Rule 7	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (12/14/00); Hazardous Pollutants: Benzene (5/15/85)		

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Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.240	Applicability and designation of sources : VHAP service	Y	
61.242-1	General Standards: <u>General</u>	Y	
61.242-2	Pump Standards: <u>Pumps</u>		
61.242-2(a)(1)	Monthly monitoring of each pump, except for 61.242-2-1(c) and paragraphs (d), (e), (f), and (g) (d), (e), or (f)	Y	
61.242-2(a)(2)	Weekly visual inspection of each pump seal, except for (e), (f), or (g)	Y	
61.242-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
61.242-2 (c)	Pump leak repair period <u>as soon as practicable but no later than 15 days, first repair no later than 5 calendar days after leak detected.</u>	Y	
61.242-2(d)	Requirements for Dual-Mechanical seal pump	Y	
61.242-2(e)	No detectable <u>pump</u> emission designation: <500 ppm	Y	
61.242-2(f)	Requirements for Closed Vent Systems <u>exemptions.</u>	Y	
61.242-2(g)	If unsafe to monitor sites, <u>written plan identifies intervals to monitor</u> as frequently as practicable.	Y	
61.242-2(h)	At least m Monthly visual inspections for un-manned sites	Y	
61.242-3	Compressor Standards: <u>Compressors</u>	Y	
61.242-4	Requirements for Standards: Pressure <u>rRelief d</u> Devices in gas/vapor service	Y	
61.242-4(a)	Pressure relief valve (gas/vapor) leak ≥ 500 ppm above background	Y	
61.242-5	Requirements for Standards: Sampling connecting systems	Y	
61.242-6	Requirements for Standards: Open-ended valves or lines	Y	
61.242-7	Valve Standards: <u>Valves</u>		
61.242-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
61.242-7(b) and (c)	(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. (c)(1) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.	Y	
61.242-7(d)	First attempt at repair <u>made no later than 5 calendar days after leak detected. Repaired as soon as practicable, but no later than 15 calendar days after leak detected.</u>	Y	
61.242-7(e)	Methods for first attempts or minimizing valve leaks	Y	
61.242-7(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that as requested by the Administrator	Y	
61.242-7(g)	Allows relief from 61.242.7(a) monitoring if designated as unsafe-to-monitor	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.242-8	Standards: Pressure Relief Devices in liquid service and Flanges and other Connectors follow either one of the following procedures if evidence of a potential leak is found:	Y	
61.242-8(a)(1)	Monitor equipment within 5 days of detection and comply with 61.242-8(b) through (d); or	Y	
60.242-8(a)(2)	Eliminate the visual, audible, olfactory, or other indication of a potential leak.	Y	
61.242-9	Standards: Surge control vessels and bottoms Product accumulator vessels shall be equipped with a closed-vent system and control device	Y	
61.242-10(b)	Standards delay of repair: Repair may be delayed for isolated equipment	Y	
61.242-10(c)	Delay of repair for valves is only allowed under certain circumstances	Y	
61.242-10(d)(1)	Pump repair requires use of Only dual-mechanical seal system with barrier fluid system. seal pumps qualify for delay of repair	Y	
61.242-10(d)(2)	Pump leaks must be repaired within 6 months	Y	
61.242-11	Requirements for Standars: closed-vent systems and control devices	Y	
61.242-11(c)	Combustion devices designed and operated for VHAP ≥95% destruction efficiency or to an exist concentration of 20 ppmvd @ 3% O ₂ , whichever is less stringent, or residence time ≥0.50 seconds and ≥760°C	Y	
61.242-11(f)	Standards: Closed-vent systems and control devices - Inspection frequencies	Y	
61.242-11(g)	Closed-vent systems leak > 500 ppm and or visible leak indication. First attempt to repair leak (visible or > 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	Y	
61.243-1, 61.243-2, and BAAQMD 8-18-404.1	Alternativd standards for valves in VHAP service-allowable percentage of valves leaking: If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually	Y	
61.245	Test Methods and Procedures	Y	
61.246	Recordkeeping requirements	Y	
61.247	Reporting requirements	Y	
BAAQMD Regulation 11 Rule 7	Hazardous Pollutants: Benzene (5/15/85)		
11-7-100	General/Applicability	N	
11-7-301	Equipment marking	N	
11-7-302	Pump Standards	N	
11-7-303	Compressor Standards	N	
11-7-304	Pressure Relief Devices in Gas/Vapor Service Standards	N	
11-7-305	Sampling Connecting System Standards	N	
11-7-306	Open-ended Valve Standards	N	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11-7-307	Valve Standards	N	
11-7-308	Pressure Relief Devices in Liquid Service, Flanges and Other Connector Standards	N	
11-7-309	Product Accumulator Vessel Standards	N	
11-7-310	Delay of Repair Limitations	N	
11-7-311	Closed Vent Systems and Control Device Standards	N	
11-7-312	Alternative Standards for Valves in Benzene Service	N	
11-7-313	Alternative Standards for Valves – Skip Period Leak Detection and Repair	N	
11-7-314	Alternative Means of Emission Limitation	N	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	N	
NESHAP 40 CFR Part 63 Subpart CC MACT CC	National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03)		
63.640(a)	Applicability <u>and designation of affected sources.</u>	Y	
63.642(e)	Keep records for 5 years <u>per 63.655(i)</u>	Y	
63.648(a)	Equipment leak standards. <u>Existing sources c</u> Comply with 40 CFR 60, Subpart VV	Y	
63.648(b)	Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency	Y	
63.648(c)	Alternate requirements	Y	
63.648(d)	New sources <u>comply with 63.163(a)(1)(ii) of subpart H for liquid liquid pumps and 63.168(a)(1)(ii) of subpart H for gas/vapor and light liquid valves.</u>	Y	
63.648(e)	Reciprocating pumps in heavy liquid service <u>not required to comply with 63.169 subpart H</u>	Y	
63.648(f)	Reciprocating pumps in light liquid service <u>exempt from 63.163 and 60.482.</u>	Y	
63.648(g)	Compressors in hydrogen service <u>exemption requirements.</u>	Y	
63.648(h)	<u>Maintain all records for a minimum of 5 years. Records</u>	Y	
63.648(i)	Reciprocating compressors exemption	Y	
63.648(j)	Pressure relief device requirements	Y	
63.649	Alternate means of emission limitation: <u>connectors in gas/vapor service and light liquid service.</u>	Y	
63.654655(d)	Recordkeeping and reporting <u>requirements</u>	Y	
Condition #8869	Applies to S- 3240332111 through 32116	Y	
Condition #23201	Applies to A-620, A-622, A-623, A-624, A-627, and A-628	Y	
Part 1	Sources subject to NSPS Subparts A and J	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources
 Source-specific Applicable Requirements**

Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #24433	Applies to S-4252, S-4253, S-4348 , S-4435	N	
Condition #24671	Applies to S-4440	N	
Condition #24136	S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021		Post Modernization
Part 1	Fugitive Equipment	Y	Post Modernization
Part 2	Component Count and POC emission limit from fugitives	N	Post Modernization
Part 3	Calculate fugitive emissions from all Modernization Project fugitive components in hydrocarbon service	Y	Post Modernization
Part 4	Modernization Project fugitive component inspections	Y	Post Modernization
Part 35	Hydrogen plant fugitive components	Y	Post Modernization
Part 36	Inspections of hydrogen plant fugitive components	Y	Post Modernization
Condition # 25703	Applies to S-32111	Y	

Table IV.H.31. VOC Sources (Paint Booth)

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 1	Organic Compounds – General Provisions (11/4/986/15/94)		
8-1-320	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-1-321	Closed Containers for Spent or Fresh Organic Solvents	Y	
8-1-322	Spray Equipment Cleanup Limitation	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)		
8-4-302	Solvents and Surface Coating Requirements	Y	
8-4-302.1	Emissions less than 5 tons per year	Y	
8-4-302.2	Abatement > 85% (> 90% for incineration)	Y	
8-4-302.3	VOC ≤ 3.5 lb/gal	Y	
8-4-312	Solvent Evaporation Loss Minimization	Y	
8-4-312.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-4-312.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-4-312.3	Closed Containers for Spent or Fresh Organic Solvents	Y	
8-4-313	Surface Preparation Standards	Y	
8-4-501	Recordkeeping	Y	
8-4-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-4-501.2	Annual Records of Coating Applied	Y	
8-4-501.3	Daily Recording of Key System Operating Parameters	Y	
8-4-501.4	Monthly Usage Records of 8-4-302.3 Coatings and Cleaning Solvents	Y	
8-4-501.5	Records Retention	Y	
BAAQMD Regulation 8 Rule 19	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (10/16/02) (not applicable to S-7601)		
8-19-110	Exemption, Low usage Coatings	Y	
8-19-302	Coating VOC Limits	Y	
8-19-302.1	Baked Coating	Y	
8-19-302.2	Air-Dried Coating	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating VOC Limits	Y	
8-19-312.1 through 312.13	Specific Baked and Air-Dried VOC content limits	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-313.1	HVLP Spray; or	Y	
8-19-313.2	Electrostatic Spray; or	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-19-313.3	Detailing Gun; or	Y	
8-19-313.4	Other Method Approved in Writing by the APCO	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-19-320.2	No Organic Compounds for Cleanup of Spray Equipment unless Controls are Used	Y	
8-19-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-19-321	Surface Preparation Standards	Y	
8-19-407	Specialty Coating Petition	Y	
8-19-501	Records	Y	
8-19-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-19-501.2	Weekly Coating Usage Records	Y	
8-19-501.3	Daily Recording of Key System Operating Parameters	Y	
8-19-501.4	Monthly Cleaning Solvent Records	Y	
8-19-501.5	Records Retention	Y	
BAAQMD Regulation 8 Rule 31	Organic Compounds – Surface Coating of Plastic Parts and Products (10/16/02) (not applicable to S-7601)		
8-31-111	Exemption, Low usage coatings	Y	
8-31-302	General VOC Limit	Y	
8-31-306	Flexible Coating VOC Limits	Y	
8-31-307	Prohibition of Specification	Y	
8-31-309	Specialty Coating VOC Limits	Y	
8-31-310	Spray Application Equipment Limitations	Y	
8-31-310.1	HVLP Spray; or	Y	
8-31-310.2	Electrostatic Spray; or	Y	
8-31-310.3	Detailing Gun; or	Y	
8-31-310.4	Other Method Approved in Writing by the APCO	Y	
8-31-320	Solvent Evaporative Loss Minimization	Y	
8-31-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-31-320.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-31-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-31-321	Surface Preparation Standards	Y	
8-31-401	Extreme Performance Coating Petition	Y	
8-31-501	Records	Y	
8-31-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-31-501.2	Weekly Coating Usage Records	Y	
8-31-501.3	Daily Recording of Key System Operating Parameters	Y	
8-31-501.4	Monthly Cleaning Solvent Records	Y	
8-31-501.5	Records Retention	Y	
BAAQMD Regulation 8 Rule 32	Organic Compounds – Wood Products Coating (06/19/968/5/09) (not applicable to S-7601)		
8-32-111	Exemption, Non-commercial and Small coating operations	Y	
8-32-119	Limited Exemption, Extreme Environmental Conditions	Y	
8-32-301	Spray Application Equipment Limitations	Y	
8-32-302	General Wood Product Limits	N	
8-32-302.1	High Solids Coatings	N	
8-32-302.2	Low Solids Coatings	N	
8-32-303	Wood Furniture, Custom Cabinetry and Custom Architectural Millwork Limits	N	
8-32-303.1	High Solids Coatings	N	
8-32-303.2	Low Solids Coatings	N	
8-32-304	Custom Furniture Limits	N	
8-32-305	Prohibition of Specification	Y	
8-32-307	Alternative Compliance, Section 8-32-302, 303 , and 304	N	
8-32-320	Solvent Evaporative Loss Minimization	Y	
8-32-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-32-320.2	Closed Containers for Fresh or Spent Solvent	Y	
8-32-320.3	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-32-320.4	Limitations and exceptions on organic solvent used for cleanup of spray equipment	N	
8-32-320.45	Closed Containers for Stripper, Coating, Adhesive, Catalyst or Thinner	Y	

IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-32-321	Surface Preparation Standards	<u>N</u>	
8-32-403	Extreme Environmental Conditions Petition	N	
8-32-404	Alternative Compliance Petition and Approval	N	
8-32-501	Recordkeeping Requirements	N	
8-32-501.1	Maintain Data Necessary to Evaluate Compliance	N	
8-32-501.2	Daily Coating Usage Records	Y	
8-32-501.3	Daily Recording of Key System Operating Parameters	N	
8-32-501.4	Records Retention	Y	
SIP Regulation 8 Rule 32	Organic Compounds – Wood Products Coating (12/20/95) (not applicable to S-7601)		
8-32-111	Exemption, Small coating operations	<u>Y</u>	
8-32-301	Spray Application Equipment Limitations	<u>Y</u>	
8-32-303	General Wood Products Limits	Y	
8-32-303.1	High Solids Coatings	Y	
8-32-303.2	Low Solids Coatings	Y	
8-32-304	Furniture and Custom Architectural Millwork Limits	Y	
8-32-304.1	High Solids Coatings	Y	
8-32-304.2	Low Solids Coatings	Y	
8-32-305	Prohibition of Specification	<u>Y</u>	
8-32-320	Solvent Evaporative Loss Minimization	<u>Y</u>	
8-32-402	Progress Report	Y	
8-32-501	Recordkeeping Requirements	Y	
8-32-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-32-501.3	Daily Recording of Key System Operating Parameters	Y	
8-32-503	Custom Architectural Millwork Recordkeeping Requirements	Y	
Condition #5640	Permit condition applies as follows:		
Part 1	Annual coating usage limit	Y	
Part 2	Hexavalent chrome coating brush application requirement	N	
Part 3	Annual clean-up solvent usage limit.	Y	
Part 4	Recordkeeping requirements	Y	
Condition #21165	Permit condition applies as follows: to S-4424		

IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth and Printers

S-4410, S-4424, S-7601

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Annual POC emission limit	N	
Part 2	Daily POC emission limit	N	
Part 3	Toxic emission limit	N	
Part 4	Recordkeeping requirements	Y	
Condition # 22266	Permit condition applies to S-7601		
Part 1	Annual ink usage limit	N	
Part 2	Annual Cleaning solvent usage limit	N	
Part 3	Record keeping requirements	Y	

**Table IV.H.4.1
 Generally Applicable Requirements
 Fenceline Monitoring**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 12, Rule 15 (12/19/18)</u>			
12-15-207	Fence-Line Monitoring System	N	1-yr after plan approval Timeline for establishing and operating a fence-line monitoring system shall be consistent and in accordance with District approved air monitoring plan. Timing in fenceline monitoring plan
12-15-403	Air Monitoring Plans	N	Timeline for establishing and operating a fence-line monitoring system shall be consistent and in

IV. Source-Specific Applicable Requirements

Table IV.H.4.1
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
			accordance with District approved air monitoring plan. Timing in fenceline monitoring plan 1-yr after plan approval
12-15-404	Review and Approval of Air Monitoring Plan	N	Timeline for establishing and operating a fence-line monitoring system shall be consistent and in accordance with District approved air monitoring plan. Timing in fenceline monitoring plan 1-yr after plan approval
12-15-406	Air Monitoring Guidelines	N	Timeline for establishing and operating a fence-line monitoring system shall be consistent and in accordance with District approved air monitoring plan. Timing in fenceline monitoring plan 1-yr after plan approval
12-15-407	Designation of Confidential Information	N	Timeline for establishing and operating a fence-line monitoring system shall be consistent and in accordance with District approved air monitoring plan. Timing in fenceline monitoring plan 1-yr after plan approval

IV. Source-Specific Applicable Requirements

Table IV.H.4.1
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
12-15-501	Fence-line Monitoring System	N	Timeline for establishing and operating a fence-line monitoring system shall be consistent and in accordance with District approved air monitoring plan. Timing in fence-line monitoring plan 1 yr after plan approval
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (12/1/2015)		
63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
63.640(c)	Applicability and Designation of Affected Source-- Includes all emission points at Refinery	Y	
63.640(h)	Applicability and Designation of Affected Source-- Compliance dates as specified in Table 11	Y	
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(h)(8)	Quarterly report contents for fenceline monitoring systems subject to 63.658. After obtaining 12 months of data, submit the following results within 45 days after the end of each quarterly reporting period covered by the periodic report via CEDRI as accessed through EPA's CDX	Y	5/15/2019
63.655(i)	Reporting and Recordkeeping Requirements-- Recordkeeping	Y	
63.655(i)(6)	All other information required to be reported under (a) through (h) must be retained for 5 years	Y	
63.655(i)(8)	Recordkeeping requirements for fenceline monitoring systems subject to 63.658	Y	
63.658(a)	Conduct sampling along the facility property boundary and analyze samples in accordance with Methods 325A and 325B of Appendix A of Part 63 and 63.658(b) through (k)	Y	
63.658(b)	The target analyte is benzene	Y	
63.658(c)	Determine passive monitor locations in accordance with Section 8.2 of Method 325A	Y	
63.658(d)	Collect and record meteorological data according to	Y	

IV. Source-Specific Applicable Requirements

Table IV.H.4.1
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>the applicable requirements in (d)(1) through (3)</u>		
<u>63.658(e)</u>	<u>Use a sampling period and sampling frequency as specified in paragraphs (e)(1) through (3)</u>	<u>Y</u>	
<u>63.658(f)</u>	<u>Within 45 days of completion of each sampling period, determine whether the results are above or below the action level</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(g)</u>	<u>Within 5 days of determining that the action level has been exceeded for any annual average Δc and no longer than 50 days after completion of the sampling period, initiate a root cause analysis to determine the cause of such exceedance and appropriate corrective actions, such as those described in 63.658(g)(1) through (4). The root cause and initial corrective action analyses shall be completed and initial corrective actions taken no later than 45 days after determining there is an exceedance.</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(h)</u>	<u>If, upon completion of the corrective action analysis and corrective actions the Δc value for the next 14-day sampling period for which the sampling start time begins after the completion of the corrective actions is greater than 9 $\mu\text{g}/\text{m}^3$ or if all corrective action measures identified require more than 45 days to implement, develop a corrective action plan that describes the corrective action(s) completed to date, additional proposed measures to reduce fenceline concentrations below the action level, and a schedule for completion of these measures. Submit the corrective action plan to the Administrator within 60 days after receiving the analytical results indicating that the Δc value for the 14-day sampling period following the completion of the initial corrective action is greater than 9 $\mu\text{g}/\text{m}^3$ or, if no initial corrective actions were identified, no later than 60 days following the completion of the corrective action analysis required in 65.658(g)</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(i)</u>	<u>Approval from the Administrator may be requested for a site-specific monitoring plan to account for offsite upwind sources or onsite sources excluded under 63.640(g) according to the requirements in 63.658(i)(1) through (4)</u>	<u>Y</u>	
<u>63.658(j)</u>	<u>Comply with the applicable recordkeeping and reporting requirements in 63.655(h) and (i)</u>	<u>Y</u>	

IV. Source-Specific Applicable Requirements

Table IV.H.4.1
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
63.658(k)	As outlined in 63.7(f), the owner or operator may submit a request for an alternative test method. At a minimum, the request must follow the requirements outlined in 63.658(k)(1) through (7)	<u>Y</u>	
63.658(k)(7)	For purposes of averaging data points to determine the Δc for the 14-day average high sample result, all results measured under the method detection limit must use the method detection limit. For purposes of averaging data points for the 14-day average low sample result, all results measured under the method detection limit must use zero	<u>Y</u>	
Appendix Table 1	Hazardous Air Pollutants	<u>Y</u>	
Appendix Table 6	General Provisions Applicability to Subpart CC	<u>Y</u>	
Appendix Table 11	Compliance Dates and Requirements	<u>Y</u>	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

Any condition that is preceded by an asterisk is not federally enforceable.

[Compliance with the throughput limit listed in Table II for S-3100](#)

VI. PERMIT CONDITIONS

Condition #469

For S-4038 to S-~~4046~~[4045](#), S-4059 to S-4062, S-4068 to S-4072, S-4093 to ~~S-4094~~, S-4107, S-4117 to S-4119, S-4127, S-4132, S-4135, S-4153, S-4154, ~~S-4156, S-4157~~, S-4159, S-4160, S-4161, S-4162, S-4163 to S-4169, ~~S-4171~~, S-4180, S-4188, S-4189, S-4191 to S-4194, S-4227 to S-4230, S-4233, S-4234, S-4236 to S-4240, ~~S-4250~~, S-4252, S-4283, S-4315, S-4330 to S-4343, S-4345, ~~S-4349, S-4396~~, S-4400, S-4402 to S-4404, ~~S-6005~~, S-6010, S-6012, S-6013, S-6015 to S-601~~6~~[67](#), S-6019, S-6039, S-6089:

CHEVRON REFINERY CAP “BUBBLE” PERMIT CONDITION

APPLICATION #27797

Last Revised per A/N 19972, 8/1/98

All criteria pollutant emissions from A-54 (Application #19972) shall be included in the cap calculation. **The basis of this refinery-wide cap condition is “Bubble”.** Per Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, S-4155 SDA Furnace

VI. Permit Conditions

**CHEVRON REFINERY CAP
 PERMIT CONDITIONS
 APPLICATION #27797
 LAST REVISED 7/2/97, A/N 16876
 Revised per A/N 19972, A/N 4134**

1. Emission Limitations

Listed below are calendar year emission limits for the refinery only and for refinery and wharf activity taken together. If the yearly limit for any pollutant is exceeded, the applicable requirements of Section 2.A shall apply. However, if in a given calendar year, any of the limits of Section 1.A are exceeded, such excess shall be allowed so long as it is offset in that calendar year by a compensatory reduction in wharf emissions at a ratio of 2:1 in the limit for the same pollutant in Section 1.B.

A. Refinery only:		B. Wharf and Refinery:	
Particulates	281.1 ton/yr	Particulates	326.0 ton/yr
Hydrocarbons	326.3 ton/yr	Hydrocarbons	391.1 ton/yr
Nox	1516.01 ton/yr	Nox	1921.01 ton/yr
SO2	392.0 ton/yr	SO2	918.0 ton/yr
CO	723.5 ton/yr	CO	773.5 ton/yr

The hydrocarbon emission limitation in Section 1.B may be exceeded only to the extent that lightering emissions may exceed 24.1 ton/yr. In the event that lightering emissions do exceed 24.1 ton/yr, this ton/yr limitation shall only be increased by 1 ton/yr for each ton of lightering emissions in excess of 24.1 ton/yr. However, in no event shall such increased lightering emissions cause the ton/yr hydrocarbon limit to be increased by more than 5.7 ton/yr. Credit for reductions in the annual limit for hydrocarbons in Section 1.B (which could be applied against excess hydrocarbon emissions above the limitations in Section 1.A) shall only be allowed to the extent that annual wharf and refinery hydrocarbon are less than 391.1 tons/yr.

C. Listed below are the maximum calendar month emission limits for refinery activity. These limits provide a mechanism, which will allow Chevron in any given month to offset certain limited increases in refinery emissions, above the refinery component of the maximum baseline month, by achieving in that same month actual reductions in emissions from wharf activity, below the wharf component of the maximum baseline month, at a ratio of 2:1. Thus, these limits will vary slightly from month to month in accordance with the formula set forth below. This formula consists of two numbers for each pollutant of concern: a fixed baseline number (which is equivalent to the emissions attributable to refinery operations in the maximum baseline month in Chevron's 3-year baseline) plus a factor, which varies with the actual emissions, associated with wharf activity during a given month. The fixed component in the factor for each pollutant is the maximum baseline month in Chevron's 3-year baseline, and the variable "awe" represents the actual wharf emissions for the month in question. As "awe" increases, the factor (and hence Chevron's ability to have monthly emissions from the refinery in a given month which exceed the refinery component of the maximum baseline month) will decrease. This factor shall be disregarded if less than zero. If the monthly limit for any pollutant, as determined by this formula, is exceeded, the applicable requirements of Section 2.B shall apply.

Refinery only:

	Baseline	Factor
Particulates	32.8	$(4.0 - \text{"awe"})/2$ ton/mo.
Hydrocarbons	31.2	$(6.4 - \text{"awe"})/2$ ton/mo.
NOx	539.2	$(37.1 - \text{"awe"})/2$ ton/mo.
SO2	155.5	$(53.8 - \text{"awe"})/2$ ton/mo.
CO	125.6	$(4.2 - \text{"awe"})/2$ ton/mo.

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- D. Listed below are calendar month emission limits applicable to the refinery only, which if exceeded, shall trigger the offset requirements of Section 2.C.

Refinery only:

Particulates	27.5 ton/mo
Hydrocarbons	31.1 ton/mo
NOx	538.2 ton/mo
SO ₂	75.5 ton/mo
CO	113.6 ton/mo

- E. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted calendar year emissions set forth in Section 1.B prorated to the number of months elapsed so far that year plus the amounts set forth below, the informational requirements of Section 2.D shall apply.

Wharf and Refinery together:

Particulates	29.9 tons
Hydrocarbons	35.9 tons
NOx	563.8 tons
SO ₂	84.1 tons
CO	70.9 tons

- F. The limits set forth in Sections 1.A, 1.B, and 1.C above are legal limits which are never to be exceeded. Accordingly, in the event that any such limit ever is exceeded, Chevron shall be immediately subject to the applicable sanctions in Section 2 below. However, these limits may be adjusted upward or downward pursuant to the provisions of Section 9 below.

2. Alternative Emission Limitations

The following conditions apply when the emission limits set forth in Section 1 above are exceeded.

- A. If any of the annual emission limits of Section 1.A or 1.B are exceeded, the following conditions shall apply:
- i. Chevron shall install and maintain on a permanent basis abatement equipment (or shall implement on a permanent basis such other abatement measures or techniques which will achieve equivalent emission reductions), as specified in the Environmental Management Plan or as approved by the Air Pollution Control Officer, to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per year by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per year);
 - ii. The refinery shall not process more than 303,000 barrels of crude oil per stream day, or more than 257,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions required under Section 2.A.i are achieved; and
 - iii. The permitted annual emission limit for the pollutant of concern shall be reduced by the amount by which said limit was exceeded on a prorated calendar monthly basis, until the emission reductions required under Section 2.A.i above are achieved.

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- B. If any of the monthly maximum emission limits of Section 1.C are exceeded, the following conditions shall apply:
- i. The excess shall be charged against the permitted annual limit in Section 1.A above which is applicable to that pollutant by twice the amount by which the limit in Section 1.C is exceeded; provided, however, that if such monthly excess occurs during December, then, to the extent that such excess cannot be charged as provided above without causing the annual limit to be exceeded, it shall be charged once against the current calendar year and once against the following calendar year;
 - ii. Chevron shall either (a) install and maintain on a permanent basis abatement equipment (or shall implement on a permanent basis such other abatement measures or techniques which will achieve equivalent emission reductions) as specified in the Environmental Management Plan, or as approved by the Air Pollution Control Officer, to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e., for every ton per month by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per month); or (b) take such other abatement measures approved by the Air Pollution Control Officer which will prevent a recurrence of the type of incident which caused the excess; and
 - iii. Chevron shall not process more than 303,000 barrels of crude oil per stream day, or more than 257,000 barrels of crude oil per stream day averaged over any one calendar month until the emission reductions or other abatement measures required under Section 2.B.ii above are achieved or taken.
- C. If any of the emission limits set forth in Section 1.D are exceeded, then the excess shall be charged against the permitted annual limit in Section 1.A above which is applicable to that pollutant by twice the amount by which the limit in Section 1.D is exceeded; provided, however, that if such monthly excess occurs in December, then, to the extent that such excess cannot be charged as provided above, without causing the annual limit to be exceeded, it shall be charged once against the current calendar year and once against the following calendar year. However, this provision shall only apply when the sanctions set forth in Section 2.B above are not triggered.
- D. If the emission limits of Section 1.E are exceeded, Chevron shall inform the District in writing within 30 days of the end of the calendar month as to what steps outlined in the Environmental Management Plan it will take to assure that the annual limits in Sections 1.A and 1.B will be met.
- E. After the District has determined that an excess of any of the limits set forth in Sections 1.A through 1.D has occurred, Chevron shall, within 90 days, submit to the District a plan detailing how this excess will be mitigated. If a short term control measure specified in the Environmental Management Plan is used to mitigate the excess, this measure must be implemented and the required reduction achieved by the end of the following calendar year. If abatement equipment is installed, a compliance plan must be submitted within the above mentioned 90 day period detailing all of the following:
1. How the reduction will be achieved;
 2. When the permit application will be submitted;
 3. When the on site construction will be completed; and
 4. When excess will be paid back (these excesses must be paid back by the end of the calendar year following the year in which abatement equipment was installed, or longer period as approved by the APCO.
- F. Reductions of reactive hydrocarbons may be used to offset increases in NO_x at a ratio of 1:1, provided that Chevron demonstrates to the satisfaction of the Air Pollution Control Officer that the increased NO_x emissions will not cause or contribute to an excess of any ambient air quality standard for NO₂ at the point of maximum ground level impact

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- G. If Chevron is subject to any of the requirements of Sections 2.A through 2.D, and Chevron fails to comply with any such requirement, each and every day on which any such failure occurs shall constitute a distinct and separate violation of the conditions of this permit, and shall subject Chevron to any and all appropriate sanctions provided by law.
- H. In the event that Chevron installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will achieve equivalent permanent emission reductions) pursuant to Section 2.B.ii (a) above, any such emission reductions shall be credited towards emission reductions which may be required under Section 2.A.i above for that same calendar year. In other words, if Chevron exceeds one of the maximum calendar month emission limits set forth in Section 1.C, and takes corrective action in accordance with Section 2.B.ii (a), but if after the end of the calendar year in which that violation took place, staff determines that Chevron also exceeded one or both of the calendar year emission limits for that same pollutant, then Chevron shall not be required to install additional abatement equipment or implement additional measures to achieve permanent emission reductions due to that violation of the calendar year limit or limits, and will not be considered in violation of such calendar year limit or limits, so long as the violation of the calendar year limit or limits is not greater than the violation of the monthly limit which was the subject of corrective action.

3. Monitoring

The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Chevron in accordance with the District's Manual of Procedures.

- A. An instrument to continuously monitor nitrogen oxide emissions in the flue gas from each SCR unit.
- B. An instrument to continuously monitor the percentage of oxygen in the flue gas from each SCR Unit.
- C. Such other instruments as listed in Appendix A, which the APCO may at future date deem necessary to calculate emissions from the refinery. Such instruments need not be installed until the APCO so informs Chevron in writing.

4. Reporting and Record Keeping

The following conditions will document Chevron's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10-1-402 of District regulations.

- A. Chevron shall maintain a file containing all measurements, records, charts and other data which are required to be collected pursuant to the various provisions of this Permit to Operate, as well as all other data and calculations necessary to determine actual emissions from all refinery and wharf operations. This file shall include, but not be limited to: the data collected from all instack monitoring instruments, the records on fuel input rates, and the records of crude oil. Actual emissions from all units at the refinery which are included under the limits set forth in Section 1 above shall be calculated in accordance with Appendix A through N. This material shall be kept available for District inspection for a period of at least 2 years following the date on which such measurements, records or data are made or recorded.
- B. Chevron shall make a monthly report to the District, within 30 days after the end of each month, which shall include but need not be limited to the following information:
 - 1. Crude oil processed
 - 2. EFOB of each fuel burned
 - 3. Number and vessel class
 - 4. Lightering

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Emissions

5. Process Unit Design

The owner/operator shall not exceed the throughput limits below. The following process unit design rates reflect the design and specifications outlined in the permit application and were used to calculate allowable emissions from the modified refinery:

UNIT	DESIGN PROCESS RATE
Light Neutral Hydrocracker(S-4340)	16,500 BPOD
Light Neutral Hydrofinisher(S-4341)	22,000 BPOD
Heavy Neutral Hydrocracker(S-4342)	26,000 BPOD
Heavy Neutral Hydrofinisher(S-4343)	12,000 BPOD
TKC Unit <u>(S-4253) (Changed from 52K BGY 3/1/95)</u>	65,000 BPOD

Note 1:

S-4253 design process rate changed from 52,000 BPOD to 65,000 BPOD by BGY on 3/1/95

Note 2:

The 65,000 BPOD throughput limit in part 5 of this permit condition for the TKC unit will be superseded by applicable throughput limits and recordkeeping requirements in permit condition 24136 after S-4253 is modified.

These units shall be designed and built to the above specifications, and annual/daily emissions caused by these units shall not exceed the amount that would be produced if the unit were operated at no more than the above design process rates for a calendar year/day.

6. Combustion

- A. Fuel oil shall not be burned at the refinery.
- B. Except during start-ups and shutdowns and other low firing rate modes (i.e., when the flue gas entering the SCR units is below 572 F), the nitrogen oxides in the flue gases from the three new SCR units shall not exceed 40 ppm as NOx corrected to 3% oxygen averaged over any 8 hour period.
- C. Deleted on August 10, 1993 (by Mr. John Swanson).
- D. The P.A. Plant incinerator outlet temperature shall not be less than 1380 F averaged over 3 hours when the PA reactors have orthoxylene feed in.
- E. Furnaces ~~F-1650 (S-4349)~~, F-1610 (S-4330), F-1310 (S-4331), F-1750 (S-4333), F-1360 (S-4332), F-1200 (S-4334), F-1250 (S-4335), F-1410 (S-4336), F-1500 (S-4337), F-1550 (S-4338), and F-1110 (S-4339) shall not exceed a combined fired duty of 337.5 million BTU/HR (HHV) averaged over either any calendar day or averaged over any consecutive 12 month period. The owner/operator of these furnaces shall not exceed the individual daily enforceable limits in the table below:

Source	Furnace	Enforceable Limit MMBtu/day (HHV)	Used for Fees MMBtu/h (HHV)
S-4330	F-1610	328.8	13.7
S-4331	F-1310	501.6	20.9
S-4332	F-1360	1754.4	73.1
S-4333	F-1750	1504.8	62.7
S-4334	F-1200	607.2	25.3
S-4335	F-1250	595.2	24.8
S-4336	F-1410	600.0	25.0
S-4337	F-1500	739.2	30.8

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S-4338	F-1550	864.0	36.0
S-4339	F-1110	456.0	19.0
S 4349	F 1650	396.0	16.5

The firing rate limits used above are expressed in terms of Higher Heating Value (HHV). When using Appendix I of Permit Condition 469 to estimate emissions, firing rates must be converted to Lower Heating Value (LHV). Firing rates in LHV are calculated by dividing the corresponding firing rate in HHV by 1.1.

~~Additional conditions for F 1650 (S 4349): [Added by B. Young on 7/2/97, A/N 16876]~~

- ~~E1. Furnace F 1650 (S 4349) shall burn only natural gas or refinery fuel gas. The burners shall not be modified to burn liquid fuels without first obtaining a new Authority to Construct from the District.~~
- ~~E2. The owner/operator of Furnace F 1650 (S 4349), a natural draft furnace, shall not emit from S 4349 nitrogen oxide emissions, as NO₂, that exceed 20 ppmv, dry, corrected to 3 % oxygen, averaged over 3 hours. This emission limit shall not apply during startup and shutdown as defined below (basis: cumulative increase).~~
- ~~E3. The owner/operator of Furnace F 1650 (S 4349), a natural draft furnace, shall not emit from S 4349 carbon monoxide emissions that exceed 50 ppmv, dry, corrected to 3 % oxygen, averaged over 8 hours. This emission limit shall not apply during startup and shutdown as defined below (basis: cumulative increase).
 For S 4349, startup shall mean that period of time during which a process heater is put into normal operation from an inactive status by following a prescribed series of separate steps or operations. The startup may not exceed 6 hours. Shutdown shall mean that period of time during which a process heater is taken out of service from a normal operating mode to an inactive status by following a prescribed series of separate steps of operations. The shutdown may not exceed 6 hours (basis: Regulation 2-1-403).~~
- ~~E4. In order to demonstrate compliance with Conditions E2 and E3, the owner/operator of S 4349 shall perform a District approved source test within 60 days of startup and at least one source test each calendar year thereafter, in accordance with the District's Manual of Procedures. Source tests on S 4349 performed by the District may be used to meet the annual compliance demonstration requirement. For any non District performed source test on S 4349, the permit holder shall notify the Manager of the District/Es Source Test Section at least seven days prior to the test, to provide the District staff the option of observing the testing. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District/Es Source Test Section for review and disposition. (basis: Regulation 2-1-403).~~

7. Access

- A. The APCO or his representatives and the U. S. Environmental Protection Agency shall have access to any portion of the refinery or wharf operations to conduct source tests or inspections in accordance with Section 1-440 of the District's Rules and Regulations, and the provisions of the Clean Air Act.
- B. The APCO or his representatives and the U. S. Environmental Protection Agency shall have the right to inspect and audit: (a) all records which are required to be maintained by Section 4 above; and (b) any other records in the applicant's possession which may indicate the nature or quantity of emissions from refinery and wharf operations, in accordance with Section 1-441 of the District Rules and Regulations, which Chevron deems to include materials that constitute trade secrets or proprietary data or information shall be designated as such and shall be treated as such in accordance with applicable statutes and regulations.

8. Enforcement

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Violation by Chevron, its officers, employees or representatives of any of the conditions set forth in this conditional permit shall subject Chevron to enforcement action under Chapter 4 of Part 4 of Division 26 of the California Health and Safety Code, and to enforcement action by the U.S. Environmental Protection Agency pursuant to the Clean Air Act (42 U.S.C. Sec. 7401 et seq.). As appropriate, each and every such violation shall be deemed to be discrete and separate violation with respect to which the District will be entitled to take legal action.

9. Miscellaneous

- A. The following process units, including all furnaces and equipment shall be shut down within 90 days after feed is introduced to all of the new process units 1, 5, 8, and 12 listed in the Authority to Construct.
 1. #1 RPM Plant
 2. #2 RPM Plant
 3. #1 Lube Rerun Plant
 4. #2 Lube Rerun Plant
- B. Nothing in the above conditions shall be construed to permit termination of the existing conditions of the Number 4 LSFO crude unit.
- C. All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this conditional permit shall at all times be maintained in good working order and be operated with due regard for the goal of complying with the terms and conditions of this permit and with all applicable District regulations.
- D. Nothing in these conditions shall be construed to allow the violation of any law or any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.
- E. In the event of changes in District regulations which may require actual reductions in the amount of emissions which would otherwise be allowed under the terms of this conditional permit to be emitted by any emission point covered by this permit, Chevron shall be required to reduce the annual limits set forth in Section 1 above by an amount equivalent to what would be required under any such rule change.
- F. Any emission reductions which Chevron may be required to undertake in accordance with Section 2 above, or any emission offsets (or other emission reductions) which Chevron may obtain to assure that the emission limits set forth in Section 1 are complied with shall not be eligible to be credited as emission reductions for purposes of calculating “cumulative increases”, and shall not be eligible to be “banked” in accordance with the District’s New Source Review Rule. Similarly, any emission increases which may occur from existing units at the refinery and/or wharf shall not be charged as emission increases for the purposes of calculating “cumulative increases” so long as Chevron complies with all applicable limits set forth in Section 1. However, any emission reductions in the refinery and wharf which Chevron obtains on a permanent and enforceable basis in accordance with the rules and regulations of the District, above and beyond those reductions required by this conditional permit, may be credited or banked, and the applicable limits or the applicable emission factor in Appendix 1 shall be adjusted accordingly; in the event that Chevron does apply to bank or credit any such emission reductions, the quantity of these emissions to be credited or banked shall be addressed at the time of such application.
- G. Chevron may elect with the concurrence of the APCO, that any new facilities or modifications which may in the future be proposed to be built by Chevron within the boundaries of the Richmond Refinery and which will be subject to the District’s New Source Review requirements, will also be subject to the limitations in this conditional permit. If Chevron so elects, and the APCO concurs, the baseline emissions for such new facilities or modifications shall be the limits set forth in Section 1 above, rather than actual emissions after the baseline period of 1978-80 (which period was used as the basis for issuance of this permit), and such new facilities or modifications shall be included as part of the refinery and wharf facilities subject to the overall limitations in Section 1 above. Emission changes at the refinery and wharf which are not covered by this permit shall be accumulated in accordance with the District’s permitting

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regulations, for purposes of calculating net “cumulative increases” or decreases; provided, however, that Chevron may incorporate at its option any such net cumulative increase or decrease within the appropriate limits set forth in Section 1 above. In such event, the applicable limits in Section 1 above shall be increased or reduced, as the case may be, by an amount equivalent to the net cumulative increase or decrease being transferred.

- H. The emission limits set forth in Section 1 above include an adjustment to account for fugitive emissions from the new facilities covered by this permit. In the event that the actual numbers of valves, pumps, flanges, process drains, and compressors for this project are other than were assumed in the analysis set forth in the permit application, the appropriate emission limits shall be adjusted accordingly.
- I. The terms and conditions of this permit shall become applicable on the first day of the month following the month when feed is first introduced into the Light Neutral Hydrocracking Unit or the Heavy Neutral Hydrocracking Unit; and for purposes of Chevron’s operations during the first calendar year in which this Permit to Operate is effective, the emission limits set forth in Sections 1.A and 1.B shall be prorated to, and shall only apply during, those months of that year including and subsequent to the month in which this Permit to Operate is issued.
- J. Any adjustments to the emission limits in Section 1, which result from the operation of the other provisions of this permit, shall be calculated in accordance with the Appendices.
- K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions, or other causes for which a variance is granted by the Hearing Board, or for which the Air Pollution Control Officer grants relief in accordance with Section 1-112 of the District’s Rules and Regulations, may be excluded by the Hearing Board or Air Pollution Control Officer, as appropriate, from those emission totals which are counted towards compliance with the limits set forth in Section 1 above; provided, however, that this provision shall not excuse Chevron from the obligation to report to the District pursuant to Section 4.B above the actual emissions from the emission points covered by this permit during the period covered by any such relief.

10. Severability

The provisions of this conditional Authority to Construct are intended to be severable, and, if any individual condition or provision hereof is held to be invalid by order of any court of competent jurisdiction, or for any other reason, the remainder of this conditional Authority to Construct shall not be affected hereby.

11. Environmental Management Plan (modified 7/2/97 B. Young)

Sixty days prior to start-up of any one new or modified unit, an initial Environmental Management Plan (EMP) shall be submitted to the District for review and comment by the APCO. This plan will detail how the application will make permanent emissions reductions to the facility if needed. This plan will explain the various control techniques available and to what sources they are most applicable in order to obtain permanent offsets. The purpose of this plan is to expedite any installation of abatement equipment if it is ever required. This plan shall be very extensive, outlining all of the control options and the source to which they are most applicable in order to provide offsets. Short term control strategies shall also be summarized. Included in this summary shall be a shutting down of certain sources, lowering or curtailing operational levels and fuel switching. Certain maximum reductions should be stated for each control strategy.

The EMP shall be updated and resubmitted at the APCO’s request, but at no more than once per calendar year. If a control strategy outline in the EMP is used to meet one of the monthly limits set forth in Section 1 above, the EMP should be revised to reflect the use of such a strategy and resubmitted by Chevron to the District for review and comment by the APCO. To the extent that any EMP submittal contains confidential information,

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such information shall be afforded the protection provided by applicable laws, rules, and regulation. Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Chevron as expeditious as practicable. Within 30 days after its receipt of such comments and recommendations, Chevron shall either (1) revise the EMP to reflect such comments and recommendations or (2) indicate which comments and recommendations Chevron did not include in its EMP revisions together with a detailed explanation as to why each comment and recommendation was not adopted or included in the EMP itself.

Additional conditions for S-4159 and S-4160, Plant 10 (2/17/93):

1. Fuel usage at the F-410 furnace (S-4159) shall not exceed 43 MMBtu/hr averaged over any consecutive 12 month period.
2. Fuel usage at the F-420 furnace (S-4160) shall not exceed 41 MMBtu/hr averaged over any consecutive 12 month period.
3. To confirm compliance with conditions #1 and #2, records of fuel usage at S-4159 and S-4160 shall be recorded in a District-approved log, summarized on a monthly basis, and made available for District inspection for a period of 24 months from the date on which a record is made.

Additional conditions for S-6015, Plant 10 (12/2/97):

For S-6015, Thermal Flare:

1. The smokeless capacity of S-6015, Thermal Flare, shall not be less than 240,000 pounds per hour. (Reasonably Available Control Technology)
2. To confirm compliance with Condition #1, prior to the start-up of S-6015, Chevron shall submit to the District a signed letter from the vendor of S-6015 that specifies the smokeless capacity of the flare in pounds per hour. (Reasonably Available Control Technology)

APPENDICES FOR CONDITION #469

- Appendix A - Lists new instrumentation to be installed to monitor fuel and/or emissions.
- Appendix B - Details how to calculate future emissions from combustion sources (compressor engines, boilers, furnaces, blanketing, flares).
- Appendix C - Details how to calculate future emissions from other organic sources (product loading, oil water separator).
- Appendix D - Details how to calculate future emissions from other CO sources (phthalic anhydride plant).
- Appendix E - Details how to calculate future emissions from other sulfur oxide sources (sulfur recovery units).
- Appendix F - Future emissions from miscellaneous combustion sources (asphalt plant).
- Appendix G - Wharf calculation assumptions and fuel consumption tables.
- Appendix H - Details how to calculate future marine loading emissions and combustion emissions.
- Appendix I - Listing of all emission factors used.
- Appendix J - Exclusions from Refinery Baseline.
- Appendix K - Listing of all fugitive emission sources from the lube oil project.
- Appendix L - Copy of the products burned statement.
- Appendix M - Copy of P.A. Plant pumping record report and operating record.
- Appendix N - Method of Calculation when there is instrument down time.

APPENDIX A NEW INSTRUMENTATION

Chevron shall install, calibrate and maintain the following monitoring instrumentation:

1. One instrument to continuously monitor nitrogen oxide emissions in the flue gas from each SCR Unit.

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2. One instrument to continuously monitor the percentage of oxygen in the flue gas from each SCR Unit.
3. One instrument to continuously monitor the volume of fuel gas to each new furnace.

NOTE: The flue gas volumetric flow rate will be calculated from 2 and 3 above.

4. One flow meter to monitor Alkane compressor natural gas consumption.
5. One flow meter to monitor natural gas blanketing at Alkane.
6. Instruments to monitor CO from each new furnace.

APPENDIX B COMBUSTION EMISSIONS

Outlined below are the methods by which future emissions will be calculated for compressors, boilers, furnaces, blanketing and flares.

Compressors

The flow meters in Table I shall be used to monitor fuel to compressors:

**TABLE I
 FUEL TO COMPRESSORS**

Refinery Area	Meter Name	Meter Description	Units
UTIL	G116	Natural Gas to Inert Gas Compressors	SCF/HR
LUB/LPD	G532	Utilities, Natural Gas to Lube Oil Div.	SCF/D
3CAT	G520	V-116 to Compressor Engine	SCF/HR
2CAT	G164Y	Natural Gas Header to Reformer	SCF/D
ALKANE	NEW	Natural Gas to Alkane Compressors	

To calculate emissions:

Convert all values to SCF/D.

The conversion factor to BTU/SCF will vary monthly, as reported by PG&E.

Refer to the appropriate emission factors in Appendix I, Section A-4.

NOTE: Alkane Plant emission estimates were based on compressor horsepower to determine three-year baseline fuel consumption. Actual meter readings may warrant baseline adjustments.

Boilers

Fuel Oil

The following entries in the Products Burned Statement shall be used to monitor fuel oil to boilers:

1. S.O. #103 – No. 1 Power Plant (EFOB/MO)
2. S.O. #150 – No. 2 Steam Plant (EFOB/MO)
3. S.O. #811 – Cat. Steam Plant (EFOB/MO)

The grand total on the Product Burned Statement shall be determined from daily tank gauge readings from the following tanks:

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1. T-241
2. T-242

Fuel oil burned at No. 2 Steam Plant and Cat. Steam Plant shall be allocated at the rate of 6 EFOB/Day/Burner, and 60 EFOB/Day, respectively. Fuel oil allocated to No. 1 Power Plant shall be determined by subtracting the allocations to No. 2 Steam Plant, Cat. Steam Plant and furnace allocations (Section 3a) from the grand total. (Account S.O. #843, FCC CO Boiler, shall also be used in fuel oil balance, although this account will normally be zero.)

To calculate emissions:

1. The conversion to EFOB will vary daily as determined by the API Gravity Meter on the fuel oil system.
2. Assume 6,000,000 net BTU/EFOB.
3. Refer to the appropriate emission factors in Appendix I, Section A-1.

Fuel Gas

The following entries in the Products Burned Statement shall be used to monitor fuel gas to boilers:

1. S.O. #103 – No. 1 Power Plant (EFOB/MO)
2. S.O. #811 – Boiler Plant (EFOB/MO)
3. S.O. #150 – No. 2 Steam Plant (EFOB/MO)

These entries shall be determined from the flow meters in Table II.

TABLE II

Refinery Area	Meter Name	Meter Description	Units
No. 1 PP	G115	Emergency Natural Gas to No. 1 PP	SCF/D
CAT Stm	G125	Process & Natural Gas to Boiler House	SCF/D
No. 2 Stm	G162	Fuel Gas to No. 2 Steam Plant	SCF/HR
No. 1 PP	G54	Fuel Gas to No. 1 PP	SCF/D

To calculate emissions:

1. Convert all values to SCF/D.
2. The conversion factor to EFOB will vary daily, as determined by the specific gravity analysis on each fuel gas system.
3. Refer to the appropriate emission factors in Appendix I, Section A-2-d. The SO₂ emission factor shall be based on the H₂S content in the fuel gas, which will be determined by the monthly average PPM of three continuous monitors in the fuel gas system (calculated monthly).

Assume 6,000,000 net BTU/EFOB.

Furnaces

Fuel Oil

The following entries in the Products Burned Statement shall be used to monitor fuel oil to furnaces:

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1. S.O. #210 – Asphalt Plant
2. S.O. #281 – #4 Crude Unit
3. S.O. #282 – Mid Distillate Hydrofiner
4. S.O. #270 – #4 Cat. Reformer
5. S.O. #285 – #5 Catalytic Reformer
6. S.O. #286 – Vacuum Gas Oil Unit
7. S.O. #309 – #11-1 Battery
8. S.O. #810 – Prop-Polymer Unit
9. S.O. #303 – #3 Battery
10. S.O. #848 – Isomax General
11. S.O. #857 – TKN-Iso Unit
12. S.O. #415 – Phenol Treating
13. S.O. #306 – #10 Battery
14. S.O. #310 – #11-2 Battery
15. S.O. #853 – SDA Unit
16. S.O. #326 – Resid. Stripper

These entries shall be determined from daily tank gauge readings for the following tanks:

1. T-241
2. T-242
3. T-907
4. T-908

Also, fuel oil burned at these unit furnaces shall be allocated at the rate of 6 EFOB/Day/Burner. A monthly Refinery fuel oil balance shall be made to verify allocations with tank gauge readings.

To calculate emissions:

1. Assume 6,000,000 net BTU/EFOB

Refer to the appropriate emission factors in Appendix I, Section A-1.

Fuel Gas

Existing Furnaces

Refer to the “Grand Total” on the Products Burned Statement. Subtract from this value the following:

1. Billings – S.O. #3000 (total material & supply).
2. Compressors – Amount in Section B-1 above.
3. Blanketing – Amount in Section B-4.
4. Flares – 1,033 EFOB/month, a constant (total for all flares).
5. Boilers – Amount in Section B-2-b above.
6. CO Boiler – S.O. #843 on Products Burned Statement.
7. FCC Unit – S.O. #840 on Products Burned Statement.
8. New RLOP Furnaces & RLOP Gas Blanketing- Hard charge meter.
9. Coal Liquifaction – Hard charge meter.
10. Coal Liquifaction – Fuel gas consumed in H2 plant to produce H2.

To calculate emissions:

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1. Convert the value to SCF/D.

The conversion to BTU/SCF will change daily.

Refer to the appropriate emission factors in Appendix I, Section A-2. The SO₂ emission factor shall be based on the H₂S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

New Furnaces

Ten new flow meters shall be installed to determine the amount of fuel gas being directed to the new furnaces. Emission calculations for TSP and organics will be the same as for existing furnaces (AP-42 emission factors).

Emission for NO_x shall be determined by monitoring the fuel gas rate and percent O₂ to determine a volumetric flow. Knowing the flow and ppm NO_x, emissions can be determined.

The SO₂ emission factor shall be based on this H₂S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

CO emissions shall be determined from the CO monitor (at the outlet to each furnace) and volumetric flow.

Naphtha

Refer to S.O. #281 on the Products Burner Statement for Naphtha burned at No. 4 Crude Unit. This entry shall be determined from the following flow meters:

Refinery Area	Meter Name	Meter Description	Units
1. LSFO	G552	#4 Crude Unit, E-1181 Naphtha to STG	MBBL/Day
2. LSFO	G553	Utilities Fuel Naphtha Make-up to V-3211	BBL/Day

To calculate emissions:

1. Assume 4,935,000 net BTU/BBL.
2. Refer to the appropriate emission factors in Appendix I, Section A-3.
3. Blanketing

The flow meters in Table III shall be used to meter natural gas to tanks:

Refinery Area	Meter Name	Meter Description	Units
CRACKING	G528Y	Tank Blanketing to Petrolite Hill	
CRACKING	G301	Natural Gas Blanketing to Poleyard Tkg.	SCF/D
ALKANE	NEW	Natural Gas Blanketing at Alkane	

To calculate emissions:

1. Convert this result to SCF/D.

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2. This value is used as necessary in Section 3-B of this Appendix.

NOTE: Emissions for Alkane gas blanketing were determined using accounting estimates for three-year baseline gas use.

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Flares

This value will remain constant at 1,033 EFOB/Month (total for all flares). The basis for this constant was determined in a refinery study for natural gas conservation.

To calculate emissions:

1. Convert this result to SCF/D.

Refer to the appropriate emission factors in Appendix I,

Section A-2. The SO₂ emission factor shall be based on the H₂S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

NOTE: Isomax Flare Gas Recovery: Emissions reduction from the Isomax Flare Gas Recovery System will be determined in a future study. The resulting credits may be added to the Refinery baseline emissions.

APPENDIX C OTHER ORGANIC EMISSIONS

Product Loading

Hydrocarbon loading emissions from Refinery operations shall be calculated as follows: Transfer Invoices for the loading of the following products into tank trucks, rail cars, and 55 gallon drums shall be used as the basis for calculating emissions.

- | | | | |
|-----|-------------|-----|------------------|
| 1. | HSFO | 13. | DIESEL |
| 2. | LSFO | 14. | MOGAS |
| 3. | JET-A | 15. | AV. GAS 80 & 100 |
| 4. | RPM | 16. | SOLVENTS |
| 5. | JP-4 | 17. | THINNERS |
| 6. | WHITE GAS | 18. | ACETONE |
| 7. | DELO | 19. | PHENOL |
| 8. | OTHER LUBES | 20. | A. O. C5 |
| 9. | WHITE OIL | 21. | A. O. C6-7 |
| 10. | GREASE | 22. | A. O. C6-9 |
| 11. | ASPHALT | 23. | A. O. C8-9 |
| 12. | WAX | 24. | OTHER CHEMICALS |
| | | 25. | AUTO DIESEL |

The emissions will be calculated by multiplying the quantities loaded as shown on the Transfer Invoices by the appropriate emission factor shown in Appendix I, Section C.

Oil-Water Separator Desalter Water

The emissions from this source is based on crude oil throughput. The crude oil throughput each month comes from the Refinery Stock Balance Sheet. Crude oil is received by pipeline, ship, rail car, and tank truck. All receipts are calculated by tank gauging and transfer invoices. The crude oil throughput is calculated by totaling all of the monthly receipts and adjusting the total by any changes in the monthly final tankage inventory.

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Emissions are calculated as follows:

Total the crude oil throughput.

Assume desalter water is 5% of crude oil throughput.

Calculated amount of desalter water used and multiply by the appropriate emission factor in Appendix I, Section B.

APPENDIX D OTHER CO EMISSIONS

Phthalic Anhydride Plant Incinerator

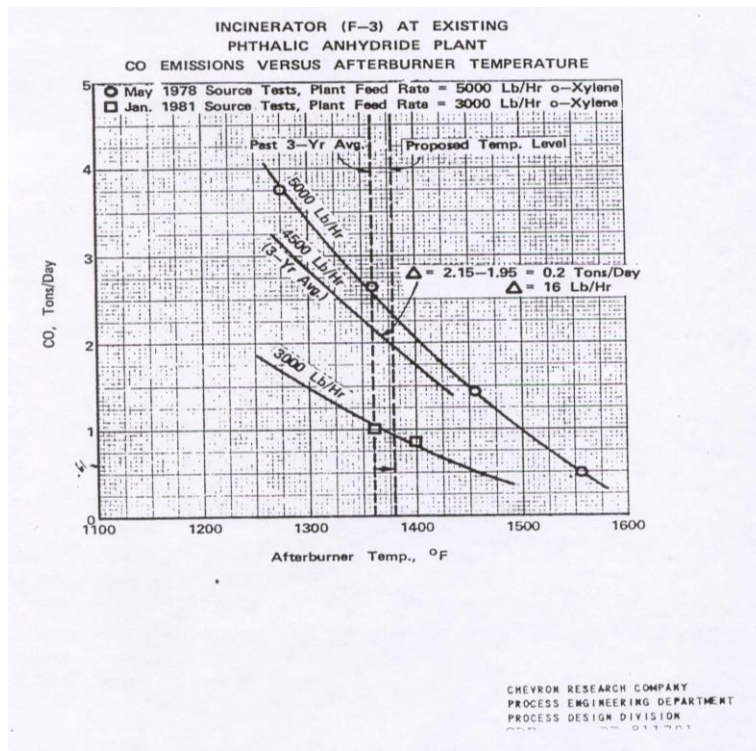
The CO emissions from the Phthalic Anhydride Plant CO Boiler shall be calculated from the following data:

1. PA Plant feed rate recorded on the P.A. Plant Pumping Record Report. This feed rate shall be calculated from daily tank gauge reading on tanks 1970 and 1971.
2. The F-3 incinerator/boiler operating temperature shall be recorded each shift on the Daily Operating Record. The temperature shall be obtained from TI-501.
3. The PA Plant operating hours shall be recorded on the Daily Stock Control Record.

The CO emissions shall be calculated by dividing the monthly total feed by the number of operating hours per month to obtain the plant feed rate. A monthly average operating temperature shall be calculated from the shift values when the PA reactors have orthoxylene feed in. The CO emissions shall then be calculated using the attached graph labeled "Figure B-2, Incinerator (F-3) at the existing PA Plant."

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APPENDIX D ATTACHMENT FIGURE B-2



APPENDIX E OTHER SULFUR OXIDE EMISSIONS

Sulfur Recovery Units

The emissions from the Sulfur Recovery Units will continue to be monitored by the existing in-stack monitors. The following items will be monitored for each SRU:

1. Stack gas PPM SO₂
2. Stack flow rate
3. Stack temperature
4. SO₂ analyzer range
5. SO₂ analyzer status

This data will be processed by the existing multi-programmer, 6940B, and calculator, 9825A. A daily printout shall be made for each SRU showing average ppm SO₂ concentration and pounds per day of SO₂ emissions.

VI. Permit Conditions

APPENDIX F MISCELLANEOUS COMBUSTION EMISSIONS

Asphalt Plant Blowing Operation

The emissions from the asphalt blowing operation will be based on the total monthly sales of each of the following asphalt products as indicated on the Transfer Invoices for these products:

1. Roofers Shingle Saturant
2. Roofers Shingle Coating
3. FG #1 and LAM #1
4. FG #2 (Fiberglass 2A)
5. Laminating Asphalt
6. Tab Adhesive
7. Roofers Flux
8. Roofers Cut-Back #3
9. Chevron Utility Coating
10. Chevron Asphalt Coating
11. Asbestos Roof Coating Base
12. Bridgedeck Membrane

The emissions will be calculated by multiplying the tons of each product sold by the appropriate emission factor as shown in Appendix I, Section D.

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APPENDIX G WHARF CALCULATION ASSUMPTIONS & FUEL CONSUMPTION TABLES

The fuel consumed is based on those values listed in Tables I, II, III, and IV. Emission factors to be used are referenced in Appendix I, Table E. The following assumptions are used:

APPENDIX G

**TABLE I. MOTOR SHIP
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Motor Ship Size	Maneuver (Transit) (Diesel) Gal/hr	(Fuel Oil) Gal/hr	Hoteling (Diesel) Gal/hr	Heating for Minas Crude (Fuel Oil) Gal/hr/MBBL	Discharging (Fuel Oil) Gal/MBBL
<20 MDWT	105	42	21	-	30
20-29 MDWT	236	42	21	-	30
30-39 MDWT	289	42	21	-	30
40-49 MDWT	341	42	21	-	30
50-59 MDWT	354	42	21	-	30
60-69 MDWT	394	84	42	-	30
70-79 MDWT	394	84	42	-	30
80-89 MDWT	459	84	42	-	30
90-99 MDWT	459	84	42	-	30
100-109 MDWT	551	84	42	-	30
110-119 MDWT	551	84	42	-	30
120-129 MDWT	551	84	42	0.25*	30
130-139 MDWT	551	84	42	0.25*	30
140-149 MDWT	656	126	63	0.25*	30

*Fuel consumed for heating Minas included for entire time in Bay Area except when ship leaves Wharf (last three hours transit time).

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APPENDIX G

**TABLE II. STEAM SHIPS
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Steam Ship Size	Maneuver (Transit) (Fuel Oil) Gal/hr	Hoteling 100% (Fuel Oil) Gal/hr	Heating for Minas Crude (Fuel Oil) Gal/hr/MBBL	Discharging (Fuel Oil) Gal/MBBL
<20 MDWT	210	42	-	30
20-29 MDWT	341	42	-	30
30-39 MDWT	394	42	-	30
40-49 MDWT	459	42	-	30
50-59 MDWT	551	42	-	30
60-69 MDWT	630	84	-	30
70-79 MDWT	630	84	-	30
80-89 MDWT	761	84	-	30
90-99 MDWT	761	84	-	30
100-109 MDWT	840	84	-	30
110-119 MDWT	840	84	-	30
120-129 MDWT	840	84	-	30
130-139 MDWT	840	84	-	30
140-149 MDWT	906	126	-	30
150 MDWT (Dejumboized)	906	126	0.25*	30
174 MDWT	906	126	-	30
190 MDWT	906	126	-	30

*Fuel consumed for heating Minas included for entire time in Bay Area except when leaving Wharf (three hours transit time).

VI. Permit Conditions

APPENDIX G

**TABLE III. SPECIAL SHIPS
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Ship	Maneuver (Transit) (Diesel) Gal/hr	Hoteling 100% Diesel Gal/hr	Discharging (Diesel) Gal/hr/MBBL	Comments
Exxon Galveston (Tug permanently attached to barge)	190	42	30	Use tug assist emission factors
Gas Turbines	341	42	30	
Barges	See tug assist fuel consumption table	0	30	Use tug assist emission factors

APPENDIX G

**TABLE IV. TUG ASSIST
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

	Fuel Consumed (Diesel (Gal/hr))
Tug Assist for Ship ≤ 50 MDWT	65.56
Tug Assist for Ship > 50 MDWT	131.12
Tug Assist for Barge ≤ 100 MBBLS	65.56
Tug Assist for Barge > 100 MBBLS	131.12

HARF MODEL ASSUMPTIONS AND/OR ESTIMATES:

1. Tug assist times are fixed for each vessel movement.
2. Assumed composition of Marine Fuel:

Fuel oil (or residuum) = 2.0 w % Sulfur, 0.43 w % Nitrogen, 18° API
 Marine Diesel = 0.5 w % Sulfur, 0.08 w % Nitrogen, 35° API
 Tug Diesel = 0.50 w % Sulfur, 35° API

3. Hoteling emissions from ships at wharfs calculated from actual wharf time.

Hoteling emissions from vessels away from wharfs are not counted except when lightering.
 Mother ship can only lighter to one ship or barge at a time.
 Turbo electric ships fuel use equals same-sized steam ship fuel use.
 Emissions from ballasting not included.
 Emission from tank cleaning not included.

APPENDIX H

DETAILS HOW TO CALCULATE FUTURE MARINE LOADING EMISSIONS & COMBUSTION EMISSIONS

Details how to calculate future marine loading emissions and combustion emissions.

Combustion Emissions

Tug Assist Emissions

$$\text{Tug Assist Emissions} = \frac{\text{Tug Assist Time (hrs/call)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

Tug Assist Time Per Call	
Barge	6 hrs
Tanker	4 hrs
Lighter Barge	4 hrs
Lighter Tanker	4 hrs

(Add 1 hr if vessel went to Pt. Orient Wharf)

Transit Emissions (Ships Only)

$$\text{Transit Emissions} = \frac{\text{Transit Time (hrs/call)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

Transit Time Per Call	
Tanker	6 hrs
Lighter Tanker	4 hrs

(Add 1 hr if vessel went to Pt. Orient Wharf)

Hoteling Emissions (Ships Only)

$$\text{Hotel Emissions} = \frac{\text{Hotel Time (hrs)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

$$\text{Hotel Time} = \text{Dock hrs} + \left[\frac{\text{Lightered Quantity (bbls)}}{\text{**Lighter Rate (bbls/hr)}} + 2 \text{ hrs} \right]^*$$

*Bracketed calculation included only if ship was a lighter ship or mother ship.

**Lighter Rates

1. Crude lighter rate = 25 Mbbls/hr
2. If other than crude:
 - a. 25 Mbbls/hr if lighter vessel is >29 MDWT ship or >50 Mbbl barge
 - b. 5 Mbbls/hr if lighter vessel is ≤29 MDWT ship or ≤50 Mbbl barge

VI. Permit Conditions

Emissions (Discharge Only)

$$\text{Pump Emissions} = \frac{\text{Pumped Quantity (Mbbls)}}{\text{(lbs pollutant/call)}} \times \frac{30 \text{ gal. Fuel consumed}}{\text{Mbbls pumped}} \times \text{Factor (Appen. I, Table E, lb/gal)}$$

Minas Crude Heating Emissions

$$\text{Minas Heating Emissions} = \frac{\text{Minas Discharged (Mbbls)}}{\text{(lbs pollutant/call)}} \times \left[\text{Dock Time} + 3 \text{ hrs (hrs)} \right] \times \frac{.25 \text{ gal}}{\text{Mbbl hr}} \times \text{Factor (Appen. I, Table E) (F.O. Hoteling Factor) (lbs/al)}$$

Loading or Lightering Volatile Organic Emissions

$$\text{Loading or Lightering Emissions} = \frac{\text{Quantity Loaded (Mbbls)}}{\text{(lbs HC)}} \times \text{Factor (Appen. I, Table F) (lbs HC/Mbbl)}$$

APPENDIX I

REFINERY EMISSION FACTORS

EMISSION FACTORS

(General factors. Where monitors are available, actual values will be used as stated in Appendix B.)

A.	Fuel (# of Pollutant/ Billion Net BTU)	Pollutant				
		TSP	NMHC	Nox	SOx	CO
1.	Fuel Oil					
	a. Boilers	56	7	470	515.2	35
	b. Furnaces	56	7	358.4	515.2	35
2.	Fuel Gas					
	a. New Furnaces	10	3	52.3	27 (160 ppm H2S)	39.8
	b. Existing Furnaces	10	3	170	3.88 (23 ppm)	17
	c. Flares (Pilot)	10	3	170	3.88	17
	d. Boilers <250 x 10 BTU/Hr	10	3	300	3.88	17
3.	Naphtha	12.2	5.2	196.6	12.51	25
4.	Natural Gas					
	a. Internal Comb. Eng.	10	105	3400	0.6	430
B.	Fugitive					
1.	Valves (#/day/valve)	-	-	-	-	-
	HC Vapor	-	1.416	-	-	-
	Light Liquid RVP>5	-	0.576	-	-	-
	Heavy Liquid RVP<5	-	0.012	-	-	-
2.	Pump Seals (#/day/seal)					
	a. Mechanical					
	Light Liquid RVP>5	-	6.0	-	-	-
	Heavy Liquid RVP>5	-	1.104	-	-	-
	b. Packing					
	Light Liquid RVP>5	-	10.0	-	-	-
	Heavy Liquid RVP>5	-	1.84	-	-	-
3.	Compressor Seals (#/day/seal)	-				
	H2>50%	-	2.64	-	-	-
	HC Vapor	-	33.6	-	-	-
4.	Cooling Towers (#/m gal)	-	0.7	-	-	-
5.	Separators (#/m gal)	-	0.2	-	-	-
6.	Drains (#/day/drain)	-	1.68	-	-	-

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C. Refinery Product Loading

Product	# of Organics/M Gal Loaded
HSFO	0.03
LSFO	0.03
JET A	0.04
RPM	0.03
JP-4	4.00
WHITE GAS (W/V.R.)	0.60
WHITE GAS (W/O V.R.)	6.00
DELO	0.03
OTHER LUBES	0.03
WHITE OIL	0.03
GREASE	0.0003
ASPHALT (W/V.R.)	0.003
WAX	0.0003
DIESEL	0.03
MOGAS (W V.R.)	0.60
MOGAS (W/O V.R.)	6.00
AV. GAS 80 (W V.R.)	0.60
AV. GAS 80 (W/O V.R.)	6.00
SOLV. & THINNERS	4.00
ACETONE (W/V.R.)	0.60
PHENOL (W/V.R.)	0.004
A.O. C5	6.00
A.O. C6-7	6.00
A.O. C6-9	6.00
A.O. C8-9	0.04
OTHER CHEMICALS	0.03
AV. GAS 100 (W/V.R.)	0.60
AV. GAS 100 (W/O V.R.)	6.00
AUTO DSL.	0.03

Note: Unless otherwise stated, product emission factors are for loading without vapor recovery.

VI. Permit Conditions

D. Asphalt Blowing

Asphalt Product	Airblown Asphalt Content (%)	A.P. 42 Emission ¹ Factor for Airblown Asphalt (lb/ton)			Emission Factor for ² This Product (lb/ton)		
		CO	Partics	Organics	CO	Partics	Organics
Roofers Shingle Saturant	100.	3.66	.58	.65	3.66	.58	.65
Roofers Shingle Coating	100.	3.66	.58	.65	3.66	.58	.65
FG #1 and LAM #1	100.	3.66	.58	.65	3.66	.58	.65
FG #2 (Fiberglass 2A)	100.	3.66	.58	.65	3.66	.58	.65
Laminating Asphalt	100.	3.66	.58	.65	3.66	.58	.65
Tab, Adhesive	100.	3.66	.58	.65	3.66	.58	.65
Roofers Flux	8.	3.66	.58	.65	.29	.046	.052
Roofers Cut-Back, #3	50.	3.66	.58	.65	1.83	.29	.33
Chevron Utility Coating	50.	3.66	.58	.65	1.83	.29	.33
Chevron Asphalt Coating	50.	3.66	.58	.65	1.83	.29	.33
Asbestos Roof Coating Base	50.	3.66	.58	.65	1.83	.29	.33
Bridgedeck Membrane	1.	3.66	.58	.65	0.37	.0058	.0065

¹A.P. 42 Factors for controlled asphalt roofing manufacturing, asphalt blowing operation (12/77 edition).

²Product emission factor equals A.P. 42 factor multiplied by fraction of air-blown asphalt in the asphalt product.

E. Ship Combustion (# of Pollutant/M gal of fuel)

Operation	P	O	NOx	SOx	CO
1. Steam Ship					
Maneuvering	19	3.1	48.2	315.3	2.62
Hoteling	19	3.1	20.9	315.3	2.62
Pumping	19	3.1	48.2	315.3	2.62
2. Motor Ship					
Maneuvering	20	32.8	367	70.1	56.9
Hoteling-Diesel	20	32.8	367	70.1	56.9
Pumping	19	3.1	48.2	315.3	2.62
Hoteling-Fuel Oil	19	3.1	20.9	315.3	2.62
3. Gas Turbines					
Maneuvering	11	4.17	71.8	70.1	31.2
Hoteling-Diesel	11	4.17	71.8	70.1	31.2
Pumping	11	4.17	71.8	70.1	31.2
4. Barges & Tugs					
All	25	13	571.2	70.1	56.9

VI. Permit Conditions

**APPENDIX I
 TABLE F
 HYDROCARBON EMISSIONS FROM UNLOADING OF
 CRUDE OIL OR PRODUCTS**

Commodity	Hydrocarbon Emissions (lbs/MBBLs of Commodity)
1. Crude Oil	71.4 (Barges) 42.0 (Vessels)
2. Gasoline, Naphtha, Orthoxylene, Benzene, Cumene, BA-3, BA-1	168.0 (Barges) 101.0 (Vessels)
3. Jet, Diesel, TKN, Mixed Cutter, Alkane	0.21
4. Fuel oil, Bunker, Lubes, Charge Stock, Gas Oil Resid, 8 cut, Palc, Polymers	0.0017

(Note: Deep draft barges greater than 40 feet tank depth will use the hydrocarbon emission factors for “vessels” above.)

APPENDIX J EXCLUSIONS FROM REFINERY BASELINE

The following are excluded from the Refinery baseline:

1. Coal Liquefaction Pilot Plant (Chevron Research)
2. FCC
3. Nitric Acid Plant

Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units’ shutdown).

Valves

Pump and compressor seals

Cooling towers

Drains

Tankage

VI. Permit Conditions

APPENDIX K FUGITIVE EMISSION SOURCES FROM LUBE OIL PROJECT

The following quantities of pumps, valves, compressors, and drains were used to determine the emission limits in Section VII of the Engineering Evaluation. After start-up of the project, emission limits will be adjusted as necessary per Section VII-9H of the evaluation.

1.	Valves (>2 inch diameter)	
	H2 Service (>50%)	250 ea.
	HC Vapor Service	635 ea.
	Light HC Liquid (RVP >0.5)	1050 ea.
	Heavy HC Liquid (RVP <0.5)	435 ea.
	Pump Seals	
	1.RVP>0.5	
	Mechanical	35 ea.
	Packing	1 ea.
2.	RVP <0.5	
	Mechanical	33 ea.
	Packing	4 ea.
3.	Compressor Seals	
	H2 Service (>50%)	17 ea.
	HC Service	11 ea.
4.	Drains	
	All Service	227 ea.

APPENDIX L PRODUCTS BURNED STATEMENT

Attached is a copy of the products burned statement on which monthly fuel usages to combustion sources are recorded.

APPENDIX M Copy of P.A. Plant pumping record report and operating record.

Attached is a copy of the P.A. Plant pumping record report and operating record.

APPENDIX N METHOD OF CALCULATION WHEN THERE IS INSTRUMENT DOWNTIME

Instrument downtime (including, but not limited to, instack monitors and other instruments whose readings are used to calculate emissions) caused by malfunction, upset, breakdown, repair, maintenance, or failure where such instrument downtime exceeds a continuous 24-hour period shall be handled as follows for purposes of calculating emissions: Emissions from the previous valid calendar day (or other relevant period) and by feed and/or product made. The emissions during the time period when the monitor is down shall be rationed according to feed rate and/or products made changes. The Air Pollution Control Officer reserves the right to source test during any monitor downtime period.

VI. Permit Conditions

Condition 1046

(Revised under Application 9329 in May 2004 [and Application 26889 in May 2015](#))

1. The owner/operator shall not operate sulfur storage tanks S-~~3141-3234~~ and S-3226 unless they are abated by the properly maintained and properly operated A-43 and A-44 Venturi Scrubbers at all times of operation, except during preventative maintenance at A-43 and A-44 scrubbers and/or during the American Petroleum Institute (API) internal inspections of the pressure vessels, which are expected to be conducted once every ten years at scrubbers A-43 and A-44.

(basis: cumulative increase)

2. The owner/operator shall minimize downtime of the A-43 and A-44 scrubbers to the extent practicable, and shall minimize emissions from S-~~3141-3234~~ and S-3226 to the extent practicable during periods of preventative maintenance and/or during periods when API inspections are conducted. Additionally, liquid transfers into S-~~3141-3234~~ and S-3226 shall be minimized during periods of preventative maintenance and/or API inspections. In no event shall preventative maintenance downtime and/or API inspection and subsequent repair exceed 612 hours in any consecutive 365-day period.

(basis: cumulative increase)

3. The owner/operator of S-~~3141-3234~~ and S-3226 shall maintain records of preventative maintenance downtime and/or API inspections to confirm compliance with above conditions. These records shall be kept on site for at least 60 months from the date of entry.

(basis: cumulative increase)

COND# 1069

S-1637, Application #8294

1. The owner/operator of S-1637 shall ensure that the concentration of organic vapor in the vapor space above the internal floating roof not exceed 30% of its lower explosive limit (LEL). (Basis: cumulative increase)
2. The owner/operator of S-1637 shall conduct quarterly visual seal inspections and measure the concentration (%LEL) of the vapor space above the internal floating roof beneath each view port (3) with an explosimeter. (Basis: cumulative increase)
3. The owner/operator of S-1637 shall maintain a district approved quarterly log of the LEL for each material stored, all concentration measurements (from each view port), and record of each visual seal inspection. This log shall be retained on site for at least 5 years from the date of entry and be made available to district staff upon request. (Basis: Regulation 2-1-403)
4. If the owner/operator determines that S-1637 is in violation of these conditions or applicable rule(s) during the quarterly inspections, the owner/operator shall submit a written report to the APCO within 120 hours of the determination of non-compliance, indicating corrective actions taken to achieve compliance. (Basis: Regulation 2-1-403)

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Condition #1162

For S – 4350 TO S-4353:

1. The Brown Boveri Gas Turbines, Sources S-4350 & S-4352 shall be fired on natural gas or LPG only except as allowed below:

In the event of an interruption of natural gas supply, the Gas Turbines may be fired on diesel fuel subject to the limitations given in part #3 and all other applicable parts listed.

Chevron shall submit a written report to the District within 10 days of the start of any PERIOD OF DIESEL FUEL USE detailing the circumstances of the service curtailment.

Chevron may perform backup fuel system testing on each Gas Turbine (S-4350 and S-4352) using low sulfur diesel fuel up to once per calendar month and once per year after scheduled annual shutdowns, provided that each testing event does not last longer than 1.5 hours, no more than two tests are performed per day, and no more than 130 bbls of fuel per event are consumed. Total testing time shall not exceed 39 hours per year and total fuel consumption shall not exceed 3380 bbls.

Chevron shall total the amount of hours required for the backup fuel system testing of S-4350 and S-4352, and this amount shall count against the total hours specified in part 3 below.

(basis: BACT)
2. The Heat Recovery Steam Generator (HRSG) Burners (S-4351, S-4353, ~~S-4345~~) shall be fired on refinery fuel gas or natural gas exclusively. (basis: BACT)
3. The use of diesel fuel shall not exceed 864 gas turbine hours per year for the facility, where gas turbine hours are calculated by adding together the hours on diesel for each turbine. (basis: BACT)
4. Each HRSG burner set shall not be operated during periods when the upstream Gas Turbine is not firing fuel. (basis: BACT)
5. The maximum design capacity for the cogeneration facility will be 13683,000 MMBTU/yr (Brown Boveri). Calculations will be based on the lower heating values of the fuels. During any calendar year in which actual operation exceeds that level, reductions in emissions must be made elsewhere in the refinery in order to meet the refinery emission limits. In addition, the annual refinery and refinery-plus-wharf emission caps for NOx and NMHC will be reduced for only that year by 10% of the annual emissions resulting from firing above design rate. (basis: BACT)
6. The emissions of oxides of nitrogen (NOx) from each emission point shall not exceed 10 ppmdv at 15% oxygen, averaged over any 3-hour period, except during periods of startup and shutdown that shall not exceed two hours and one-half hour respectively. (basis: BACT)
7. A Selective Catalytic Reduction (SCR) system, capable of achieving the NOx limit specified in part #6, shall be installed in the HRSG. (basis: BACT)
8. Chevron shall install and operate a continuous system to monitor and record the fuel consumption and the ratio of steam injected to fuel fired in each Gas Turbine in accordance with District Regulation 10. (basis: Regulation 10)
9. Only diesel fuel with a maximum sulfur content of .05% (by weight) shall be used. All diesel fuel documents certifying sulfur content shall be made available to the district upon request. (basis: BACT)
10. The Oxidizing Catalyst (A70, A71, A72) shall reduce CO emissions from the gas turbines and HRSG Burners by at least 80% (by weight). (basis: BACT)
11. The Oxidizing Catalyst (A70, A71, A72) shall reduce NHMC emissions from the Gas Turbines and HRSG Burners by at least 50% (by weight). (basis: BACT)

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12. Chevron shall install, calibrate and operate District approved continuous monitors for NO_x, carbon monoxide, and either oxygen or carbon dioxide at each emission point. Records shall be kept on file for five years and made available to the District upon request. (basis: BACT)
13. Deleted.
14. Chevron shall provide stack sampling ports and platforms, the location of which shall be subject to the approval of the District. (basis: BACT)
15. Deleted.
16. Chevron shall maintain appropriate records for the last five years of operation (i.e. fuel usage rates, Gas Turbine load levels, hours of operation, ratio of steam injected to fuel fired, etc.) to verify compliance with all listed permit conditions. The cogeneration project's non-fugitive emissions shall be included within the refinery emission cap. Chevron's computer monitoring of emissions shall be changed to include these emissions. (basis: BACT)
17. Deleted
18. *The total emissions of ammonia from the Gas Turbines and HRSG Burners shall not exceed 20 ppm, averaged over a three hour period. (basis: toxics)
19. *The stack from the cogeneration facility shall be constructed to a height above ground-level of 41.9 meters or the ground level impact of the pollutants at the project site shall be mitigated. (basis: toxics)
20. If for any reason, diesel fuel is fired and actual NO_x or hydrocarbon emissions exceed the emissions levels which were offset initially (Tables 4-1a and 4-1b), then Chevron shall reduce the annual "refinery cap" and "refinery and wharf cap" for NO_x and NMHC for that year only by 10% of the annual emissions resulting from firing above the previously offset rate. This reduction will result in the required offset ratio of 1.1:1 for NO_x and NMHC being provided. Additional offsets for TSP, SO₂, and CO, if needed, shall be provided by phasing down or shutting down other pieces of equipment under the cap such that the cap itself is not exceeded. This reduction will result in the required offset ratio of 1:1 for TSP, SO₂ and CO being provided. (basis: offsets)

Condition #1331

For S-4415:

- *1. The asphalt loading rack S-4415 shall not be operated unless it is vented to A-37 mist eliminator except when A-37 is down for cleaning. (basis: cumulative increase)
2. When the abatement device A-37 is down for cleaning or repairs, Chevron shall not load more than 238,000 gallons of asphalt per day. (basis: cumulative increase)
3. When the abatement device A-37 is down for cleaning or repairs, Chevron shall maintain a District approved record of the daily throughput. This information shall be kept for at least five years and be made available to District representatives upon request. (basis: cumulative increase)

Condition# 2238 Plant 10, Application #8452 For S-3100 at Plant 10:

1. The owner/operator of S-3100 shall not exceed 14,000,000 barrels of crude oil throughput during any consecutive twelve-month period. The owner/operator may store materials other than crude oil provided that the owner/operator demonstrates that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels. (Basis: BACT)

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2. The owner/operator shall maintain a zero gap seal between the tank shell and the tank's dual seals. (Basis: Regulation 8, Rule 5/BACT)
3. The owner/operator of S-3100 shall only store materials with a vapor pressure that shall not exceed 11.0 psia. The concentration of benzene of materials stored shall not exceed 2.0 wt.%. (Basis: BACT/Toxics)
4. The owner/operator of S-3100 shall maintain records of storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: BACT)
5. The owner/operator shall control S-3100 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank. (Basis: BACT/TBACT)

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well (amended per AN 8452)	Slotted with a pole sleeve that projects below liquid surface, a zero-gap pole wiper, and a exterior flexible barrier/cover that covers all of the slots
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Adjustable, with vapor seal boot
Rim vent	Weighted mechanical actuation, Gasketed

Note: The owner/operator of S-3100 shall have the exterior flexible barrier/cover installed by 2/4/04. (Basis: BACT)

The owner/operator of S-3100 shall inspect the exterior flexible barrier/cover to determine that it is functioning properly and has no holes or leaks at least twice per calendar year at 4 to 8 month intervals. (Basis: BACT)

COND# 2856

Plant 10, Application #10401

For S-399 at Plant 10:

1. The owner/operator of S-399 shall not exceed 3,500,000 barrels of material throughput during any consecutive twelve-month period. (Basis: cumulative increase)
- ~~2.~~ The owner/operator of S-399 shall only store materials with a vapor pressure that shall not exceed 10.0 psia and the annual average vapor pressure shall not to exceed 7.0 psia. (Basis: cumulative increase)
- ~~2-3.~~ The owner/operator of S-399 shall maintain a district approved monthly log of all storage tank throughput, type, storage vapor pressure, annual average material vapor pressure and all inspection

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records. These records shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request. ([Basis: Regulation 2-1-403](#))

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Condition #3697 For S – 1799:

1. Throughput at S-1799 shall not exceed 7,200,000 Bbls. During any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-1799 shall store only gasoline, Penhex, Reformate, Crude Oil, Jet A, any material which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure (TVP) less than Penhex (8.0 @ 70F) and toxicity less than Reformate (8.1% Benzene by weight). (basis: cumulative increase)
4. The owner/operator of S-1799 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data which are available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years.” (basis: cumulative increase)

Condition #4233 For ~~S-1908, S-1911, S-1913, S-1914, S-1915, S-1919, S-2917, S-2918, S-2920, S-2921~~:

- *1. The annual throughput for the following sources shall not exceed the amount listed as follows:

-Sources 1913, 1914	225,000 bbl/yr ea.
-Sources 2917 & 2918	20,000 bbl/yr ea.
-Source 1908	1,750,000 bbl/yr
-Source 1915	1,000,000 bbl/yr
-Source 1919	500,000 bbl/yr
-Source 2920	150,000 bbl/yr
-Source 2921	5,000 bbl/yr

(basis: cumulative increase)
- *2. Water scrubbers abating all the asphalt storage tanks, shall be maintained in good working condition and operated at all times. (basis: cumulative increase)
- *3. The owner/operator of ~~S-1908, S-1911, S-1913, S-1914, S-1915, S-1919, S-2917, S-2918, and S-2920, and S-2921~~ shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years.” (basis: cumulative increase)

Condition #4650 For S – 3110, S-3111, S-3192, S-3200:

Pertaining to Tanks only:

Pertaining to DEBRU Operations:

1. POC emissions from S-3110, S-3111, and S-3192 shall be abated by at least 98.5% (wt) by the A-3200 furnace F-1100B incinerator. (Note: 6/17/91 Source Test: 99.7%) (< 1 ppm) abatement (basis: BACT)
2. Abated POC emissions from S-3110, S-3111, and S-3192 combined shall not exceed 1.0 lb/day. (Note: 6/17/91 Source Test: < 1.0 lbs/day) (basis: BACT)
3. *Abated benzene emissions from S-3110, S-3111, and S-3192 combined shall not exceed 0.04 lb/day.

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(Note: 6/17/91 Source Test: 0.333 lbs/day) (basis: toxics)

4. *The benzene liquid concentration in S-3111, and S-3192 shall not exceed 1% (wt) (10,000 ppm) at any time. (Note: 12/19/90 Source Test: 1800 ppm Bz at Carbon inlet.) (basis: toxics)
5. The A-3200 furnace shall be maintained a minimum operating temperature of 1000 F as measured at the roof of the radiant section. The owner/operator of S-3200 shall install and maintain a continuous temperature monitor/recorder in order to demonstrate compliance with this condition. Thermowell monitor and Chevmon used to verify compliance. (basis: BACT)
6. The A-3200 vent gas shall be exhausted directly into the gas burner flames in F-1100B. No vent gas shall exhaust into an unlit burner. The fuel oil burner system used for the A-3200 vent gas shall be properly installed, properly maintained, and in good operating order such that no bypassing or leaking of vent gas occurs outside of the F-1100B gas burner flame pattern. (basis: BACT)
7. The S-3200 DEBRU system shall contain a continuous flow monitor/recorder on both the nitrogen purge gas stream and the vent gas stream to the A-3200 abatement device in order to demonstrate that all vent and purge gasses are flowing to A-3200. Continuous monitoring of the set-point for the vent gas and nitrogen purge gas control valves will be adequate to demonstrate compliance with this condition. (basis: BACT and cumulative increase)
8. The S-3200 DEBRU shall have a continuous pressure monitor/recorder in order to confirm that no unintended leaks, depressurizations, or bypasses to atmosphere occur.
 - A. Any bypass of the A-3200 F-1100B furnace, other than venting from a properly operating pressure relief valve, shall be considered a violation of District regulations and shall be reported to District Enforcement staff per the District's breakdown or emergency variance procedures.
 - B. Venting from any properly operating pressure relief valve in the S-3200 system shall be reported in writing to the District within 14 days of the venting event. (basis: BACT)
9. The organic concentration measured at all new pump seals associated with the S-3200 Desalter Effluent Treatment Unit shall not exceed 100 ppm measured as methane one centimeter from the source. (basis: BACT)
10. All new pump seals associated with S-3200 shall have water seal flush systems which operate at a higher pressure than the process side of the pump seal and prevent process leaks to atmosphere. (basis: BACT)
11. The owner/operator of S-3110, S-3111, S-3192, and S-3200 shall maintain appropriate records to confirm compliance with parts 5, 7, and 8. (basis: BACT and cumulative increase)
12. Deleted.
13. Deleted.
14. Deleted.

Condition #4714 For S – 9321 TO S-9324~~5~~:

1. Deleted.
2. Owner/Operator shall perform necessary source tests to establish a specific range of combustion zone temperature which will ensure that the emissions of precursor organic compounds are reduced at least 95% by weight from uncontrolled conditions or the emissions do not exceed 2 lbs per 1000 barrels loaded. (basis: [Regulation 8-44](#))
3. Owner/Operator shall install instrumentation to and record the following:
 - A. Static pressure in the marine tank vessel,

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- B. oxidizer exhaust temperature,
 - C. Hydrocarbons and flow to determine mass emissions or a concentration measurement alone if owner/operator can demonstrate to the satisfaction of the APCO that a concentration alone assurance of compliance, or
 - D. Any other device that verifies compliance, with prior approval from the APCO for the purposes of Chevron Refinery's Bubble Permit # 27797, hydrocarbon emissions charged to the emission cap will be the emissions recorded by the continuous hydrocarbon monitor. If the monitor is not operating, owner/operator shall calculate uncontrolled emissions as specified in Bubble Permit # 27797 and use a 95% (by weight) reduction factor to determine controlled emissions. The need for the hydrocarbon analyzer will be reviewed by the APCO prior to reissuance of the initial permit to operate. (basis: [Regulation 8-44](#))
- 4. Deleted.
 - 5. Owner/Operator shall not load or permit the loading of a regulated organic liquid into a marine tank vessel within the District whenever the marine vapor recovery system is not fully operational. The vapor recovery system must be maintained to be leak free, gas tight and in good working order. For "the purposes" of this condition, "operational" shall mean the system is achieving the reductions required by Part No (basis: [Regulation 8-44](#))
 - 6. The vapor recovery system shall be operated such that the temperature of the exhaust from the incinerator is greater than 1200°F after startup (basis: [Regulation 8-44](#))
 - 7. Deleted
 - 8. Owner/Operator shall not exceed a loading pressure greater than 80% of the lowest relief valve set pressure of the vessel being loaded. (basis: [Regulation 8-44](#))
 - 9. All maintenance records required for the vapor recovery system at this facility, which are subject to Regulation 8, Rule 44, shall be kept on site for five years and made available to the District upon request. (basis: [Regulation 8-44](#))

~~Condition #5270 For S-21: S-21, QCD Recovered Tank 21Tk:~~

- ~~1. The total throughput for S-21 shall not exceed 30,000 gallons in any consecutive 12 month period. (basis: cumulative increase)~~
- ~~2. The owner/operator of S-21 shall maintain records of throughput in a District approved log to demonstrate compliance with Part #1. These records shall be kept on site and made available for District inspection for a period of 60 months from the date on which the record is made. (basis: cumulative increase)~~

Condition #5640 For S-4410:

- 1. The total quantity of coatings applied at S-4410 Maintenance Spray Booth shall not exceed 500 gallons in any consecutive twelve month period. (basis: [cumulative increase](#))
- 2. *All coatings containing hexavalent chromium shall be applied with a brush at S-4410. (basis: toxics)
- 3. The total quantity of cleanup solvent used at S-4410 shall not exceed 55 gallons in any consecutive 12 month period. (basis: [cumulative increase](#))
- 4. The owner/operator of S-4410 shall maintain written records of coating and solvent usage on a monthly basis to verify compliance with parts #1 and #3. These records shall be retained on-site for a minimum of five years from the date of entry and made available to District personnel upon request. (basis: cumulative increase and toxics)

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Condition #6001 For S – 4286:

1. Completed.
2. All new pressure relief valves associated with this project shall be vented to the refinery flare recovery system. (basis: BACT)

Condition# 5599

1. The Abrasive Blasting Cabinet (S-4422) shall be vented to the properly operated and properly maintained dust collector (A-4422). (Basis: Cumulative Increase)

Condition #6660 For S – 3189:

1. The individual tank throughput at S-3189 shall not exceed 12,000,000 barrels of non-permit exempt stock during any consecutive 12 month period. (basis: (cumulative increase)
2. S-3189 shall store only gasoline components, jet fuel components, diesel, or other petroleum hydrocarbon material with a vapor pressure (TVP) less than or equal to 11.0 psia, and a benzene content less than or equal to 9.9% by weight. In addition, all other toxic air contaminant emissions, not including benzene, shall not exceed their respective risk screening trigger levels (compliance with this term has been determined through District Air Toxics Division assessment at the time of permit evaluation) (basis: cumulative increase and toxics).
3. The owner/operator of S-3189 shall maintain records of the storage tank throughput, type, and TVP in order to confirm compliance with the above conditions. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: cumulative increase, toxics)

Condition #6661 For S – 3190:

1. Total hydrocarbon throughput for S-3190 shall not exceed 7,300,000 barrels in any consecutive 12 month period. (basis: cumulative increase)
2. S-3190 shall store only MTBE, Jet "A", or any other District approved POC material which has a vapor pressure that is no higher than the vapor pressure of MTBE (6.5 psia) and is no more toxic than MTBE (based upon District established toxics screening thresholds). The owner/operator of S-3190 shall submit a written notification (X-Form) to the District within 30 days after storing any new products other than MTBE and Jet "A" in S-3190. (basis: cumulative increase and toxics)
3. The owner/operator of S-3190 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: cumulative increase)
4. All new valves shall be either live loaded packing design, bellows sealed, diaphragm type, or other approved equipment design. All new flanges shall use graphitic gaskets or other District approved equivalent design. (Per correspondence w/ J. Adkins, valve criteria designated herein "oes not apply to valves < 2 inches.)" (basis: BACT)

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Condition #7583 For S – 3191:

1. The total throughput for S-3191 Storage Tank shall not exceed 2,000,000 Bbls of non-exempt stock in any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-3191 may store any liquid provided the storage vapor pressure of MTBE, any MTBE mixture, or any non-toxic liquid shall not exceed 10.95 psia. The storage vapor pressure of any other material shall not exceed 6.2 psia and shall not have a greater toxicity than Avgas. (basis: cumulative increase and toxics)
4. The owner/operator of S-3191 shall maintain records of the storage tank throughput and type of stock in order to confirm compliance with parts #1 and #2. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of five years. (basis: cumulative increase and toxics)

Condition #7642 For ~~S – 3181, S-6050, S-6052~~:

For S-6050 (MTBE plant) at Plant 10

1. There shall be no venting of hydrocarbons from S-6050 except as provided for in District Regulations regarding routine shutdown procedures and/or during upset conditions. All process vents shall be directed to a flare gas recovery system. (basis: BACT)
2. Deleted.
3. Deleted.
4. ~~Throughput of methanol at S-3181 shall not exceed 620,000 barrels per year. (basis: (cumulative increase))~~
5. ~~Amount of Methanol imported to S-3181 by railcar shall not exceed 33,000 barrels (approximately 60 railcars) per year. (basis: cumulative increase)~~

~~For S-6052 (Methanol loading Racks) at Plant 10 (Construction Cancelled):~~

1. ~~Methanol unloading arms at S-6052 shall incorporate dry break connections to minimize fugitive emissions associated with connection and disconnection. There shall be no visible drip or leakage from the dry break connections. (basis: BACT)~~

COND# 7880

S-9304

1. Pursuant to BAAQMD Toxic Section policy, this facility's annual throughput shall not exceed 500,000 gallons in any consecutive 12 month period. (Basis: TRMP)

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Condition #8180

For fugitive emissions a, Plant 10

1. All fugitive emission components shall comply with the requirements of Regulations 8-18 ~~of the following leak rates whichever is more stringent~~. Concentrations are expressed as methane measured at 1 cm from the component. at S-4235. (basis: BACT)
2. The following type of fugitive emission components, or District-approved equivalent technology, shall be utilized for all new components installed at S-4235

Pumps, heavy liquid:	Single mechanical seal
Valves, heavy liquid:	Flexible graphite packing
Valves, light liquid:	Live-loaded or flexible graphite packing
Flanges, heavy liquid:	Graphite gasket
Flanges, light liquid:	Graphite gasket
Compressors, vapor:	High pressure oil seal

(basis: BACT)

~~Condition #8252 For S-3197 at Plant 10:~~

- ~~1. Throughput at S-3197 shall not exceed 4,000,000 barrels during any consecutive twelve month period. (basis: BACT)~~
- ~~2. Deleted.~~
- ~~3. S-3197 shall only store gasoline, sponge oil, sour water, naphtha feed, MTBE, Reformate, any material which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure less than unleaded gasoline (6.2 psia at 70 deg F) and toxicity less than Reformate (8.1% benzene by weight). (basis: cumulative increase and toxics)~~
- ~~4. The owner/operator of S-3197 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: BACT)~~

Condition #8253 For S-3193:

1. Throughput at S-3193 shall not exceed 9,500,000 bbls. During any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-3193 shall store only gasoline, gasoline components, MTBE, Reformate, any material that is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a toxicity less than Reformate (8.1% Benzene by weight). The vapor pressure of liquids stored in S-3193 shall not exceed 10.95 psia (basis: cumulative increase and toxics)
4. The owner/operator of S-32193 shall properly install a guidepole sleeve as an interim measure and shall ultimately install an unslotted guidepole at S-3193 (or other emission control device approved by the APCO) according to District Variance proceeding, Docket #2721. (basis: cumulative increase)

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5. The owner/operator of S-3193 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: cumulative increase and toxics)

Condition #8503 For S – 679:

1. Throughput of jet fuel components at S-679 shall not exceed 1,000,000 bbls during any consecutive 12 month period. (Basis: cumulative increase)
2. Deleted.
3. S-679 shall only store jet fuel components or any material, which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District). The vapor pressure of Jet fuel components stored at S-679 shall not exceed 3.2 psia (TVP). (Basis: cumulative increase)
4. The owner/operator of S-679 shall maintain records of storage tank throughput in order to confirm compliance with part #1. These reports shall be summarized on monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: cumulative increase)

Condition #8715 For S-3198:

1. Total Liquid Throughput (regulated stock only) for S-3198 shall not exceed 500,000 Bbls in any 12 month consecutive period. (basis: cumulative increase)
2. Only Toluene, Jet A, Distillate Oil, exempt materials as defined in BAAQMD Regulation 2 Rule 1, or any material deemed by District staff to be equivalent to Toluene or Jet A with regard to toxicity and vapor pressure shall be stored in S-3198. (basis: cumulative increase)
3. The owner/operator of S-3198 shall maintain written records of the throughput and type of each liquid stored at S-3198 in a District approved log. These records shall remain on-site for a minimum of five years from the date of entry and made available to district representatives on request. (basis: cumulative increase)

Condition# 8773 For fugitive emissions at S-4251, Plant 10:

1. Except for two light-liquid pumps (P-130 and P-130A) in Deasphalted Oil (DAO) service that require steam quench on the shaft seals, aAll light-liquid pumps at S-4251 shall have their shaft seals vented to at least one of the following furnaces S-4152, S-4153, S-4154, or S-4155. Any furnace to which pump seals are vented shall be properly operated and maintained at all times that the pumps are operating. Vent gas shall be exhausted directly into a gas burner flame and shall not exhaust into an unlit burner. The seal vent system shall be equipped with continuous flow monitors in order to demonstrate that all vent gases are flowing to an operating furnace. Sections of the vent system may be temporarily shutdown for repair or maintenance while the pumps are in service as long as the pumps and other fugitive components that are normally abated by the vent system comply with the requirements of Regulation 8-18. These temporary shutdowns for repair and maintenance shall not exceed 14 days in any consecutive 12 month period. The owner/operator shall monitor the fugitive components for compliance with Regulation 8-18 within 24 hours of repair or maintenance period commencing. The owner/operator shall operate non-leaking pumps if available during these periods of maintenance and repair of the vent gas system. (Basis: ~~cumulative increase~~Cumulative Increase)
2. All pressure relief valves at S-4251 shall be vented to a flare gas recovery system. (Basis: Cumulative ~~increase~~ Increase)

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For S-4155, Plant 10:

1.
 - a. The NOx emitted from S-4155 shall not exceed 8.85 lb/hour (averaged over any rolling 3-hour period). This NOx emissions limit shall not apply to S-4155 during the startup or shutdown period of S-4155. For S-4155, startup periods shall last no more than 36 hours after the first burner is lit. For S-4155, the shutdown period shall begin 12 hours before the last burner is extinguished. (Basis: Cumulative Increase)
 - b. The time of first burner lighting and last burner extinguishment shall be determined based on the NOx CEM data and/or continuous hourly fuel flow data of S-4155. The first NOx reading recorded by the properly operating CEM after S-4155 is cold started from zero fuel flow, will be considered the point at which startup has begun. The time of last burner extinguishment (the end of the shutdown period) will be considered the time when the fuel flow to S-4155 is zero.
 - c. The NOx mass rate shall be calculated as follows based on the concentration (ppm NOx, corrected to 3% O₂, dry) as measured by the CEM and the firing rate (BTU/hr) based on the fuel gas meter for S-4155: $\text{lb NOx/hour} = [\text{ppm NOx}](1 \text{ lb-mole}/386 \text{ scf})(46 \text{ lb NO}_2/\text{lb-mole NO}_2)(0.01017 \text{ dscf flue gas}/\text{BTU})[\text{million BTU}/\text{hour}]$
2. The concentration of CO emitted from S-4155 shall not exceed 50 ppmv corrected to 3% O₂, dry. Compliance with this CO limit shall be based on the average of three 30-minute test runs as specified in BAAQMD Source Test Procedure ST-6. (Basis: BACT)
3. S-4155 shall be equipped with a District-approved O₂ monitor and a District-approved continuous NOx monitor. (Basis: Regulation 2-1-403)
4. To confirm compliance with the NOx and CO limits in conditions #1 and #2, respectively, and to verify the accuracy of the NOx monitor required by condition #3, the owner/operator of S-4155 shall conduct a source test within 60 days of start-up after the physical modification of the equipment. The District Source Test Manager shall approve the source test procedures as well as the installation and location of testing ports, instrumentation, and platforms. After the above approval is received, the owner/operator shall notify the District Permit Services Division and the District Source Test Manager at least two weeks prior to performing any source test. Source test results shall be submitted to the District Source Test Section and the Permit Services Division within 45 days of completing the test. (Basis: Cumulative Increase, BACT)
5. The concentration of H₂S in the fuel gas at S-4155 shall not exceed 50 ppm averaged over any 24-hour period. To confirm compliance with this condition, either S-4155 or the fuel gas mix drum supplying fuel gas to S-4155 shall be equipped with a continuous H₂S monitor, and this information shall be made available for District inspection for a period of 24 months from the date on which a record is made. (Basis: BACT)
6. Fuel usage at S-4155 shall not exceed 209 MMBtu/hr on an annual average basis. To confirm compliance with this condition, records of fuel usage at S-4155 shall be recorded in a District-approved log, summarized on a monthly basis, and made available for District inspection for a period of 24 months from the date on which a record is made. (Basis: BACT)

Condition #8869 For S-32103:

[For S-32111, S-32112, S-32113, S-32114, S-32115, and S-32116:](#)

[Fugitive Sources - Pumps & Compressor Seals:](#)
[S-32111 - Fugitive Sources - No. 17 Pump Station](#)
[S-32112 - Fugitive Sources - LPG](#)
[S-32113 - Fugitive Sources - Yard DIB](#)
[S-32114 - Fugitive Sources - No. 21 Pump Station](#)
[S-32115 - Fugitive Sources - FCC Unit](#)
[S-32116 - Fugitive Sources - Alkylation Plant](#)

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[Application # 10361, Plant # 10 \(2/4/1993\) → Thermal Oxidizers \(Parts 1 - 4\)](#)

[Application # 25630, Plant # 10 \(8/19/2013\) → Abatement Clarification \(Part 5\)](#)

[Application # 25747, Plant # 10 \(10/2013\) → \(Part 6\)](#)

[Condition Parts 1, 2, and 4 only apply when A-620, A-622, A-623, A-624, A-627, or A-628 is used to exempt an applicable source from Regulation 8, Rule 18 requirements per the exemption of Regulation 8-18-110:](#)

1. The owner/operator of A-620, A-627, and A-628 Thermal Oxidizers (Model ES-300) shall maintain each at a minimum VOC destruction efficiency of 95% by weight. The owner/operator shall operate each A-620, A-627, and A-628 (Model ES-300) at a minimum temperature of 1500 deg F. (basis: BACT, 40 CFR 60.482-10 (c), 40 CFR 60.692-5 (a), and 40 CFR 61.242-11 (c))
2. The owner/operator of A-622 through 624 Thermal Oxidizers (Model ES-60H) shall maintain each at a minimum VOC destruction efficiency of 95% by weight. The owner/operator shall operate each A- 622 through 624 (Model ES-60H) at a minimum temperature of 1565 deg F. (basis: BACT, 40 CFR 60.482-10 (c), 40 CFR 60.692-5 (a), and 40 CFR 61.242-11 (c))
3. The owner/operator of each Thermal Oxidizer (A-620, A-622, A-623, A624, A-627, and A-628) shall have a continuous temperature monitor. Each pump duct shall be equipped with a continuous flow monitor. (basis: BACT)
4. The owner/operator shall monitor twice daily and record in a District approved log the temperature of each of the thermal oxidizers (A- 620, A-622, A-623, A-624, A-627, and A-628). These records shall be kept on site and made available for District inspection upon request for a period of 60 months from the date of entry. (basis: BACT)
5. [At all times, the owner/operator of each source shall comply with Regulation 8, Rule 18 requirements. The exemption of Regulation 8-18-110 does not apply unless Chevron can demonstrate abatement using a District-approved abatement device that reduces VOC emissions by a minimum of 95% by weight where reduction efficiency = VOC collection efficiency x VOC destruction efficiency.](#)
[At no time shall a source be placed on the Regulation 8, Rule 18 non-repairable equipment list if an associated abatement device \(or District-approved alternative\) is operable unless such usage \(in accordance with manufacturer's specifications\) is unable to comply with Regulation 8, Rule 18 limits. \(Basis: 2-1-403\)](#)
6. [The owner/operator of A-622 and A-627 may use A-622 and A-627 as back up devices to thermal oxidizers A-620, A-623, A-624, and A-628. \(Basis: 2-1-403\)](#)

Condition #9048 For S-4253:

For fugitive emissions at S-4253:

1. All new flanges installed at S-4253 shall be equipped with graphite-based gaskets, metal ring joints, or District-approved equivalent technology. (basis: BACT)
2. All new valves at S-4253 shall be live-loaded or graphitic-packed valves or District approved equivalent technology. (basis: BACT)
3. All new pressure relief valves at S-4253 shall be vented to a flare gas recovery system. (basis: BACT)
4. All new pumps at S-4253 shall have single mechanical seals or District-approved equivalent technology.

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(basis: BACT)

- The increase in fugitive POC emissions from S-4253 as a result of this modification shall not exceed 11.65 lb/day. The owner/operator of S-4253 shall submit a revised pump, valve, flange, and PSV count within 30 days of startup in order to confirm compliance with this limit. If the increase in fugitive POC emissions from S-4253, calculated in accordance with District procedures, is not equal to 11.65 lb/day, then the District may adjust the change in the cumulative increase attributed to this permit application before the issuance of the permit to operate. (basis: cumulative increase)

Additional Conditions for S-4159 (TKC F-410 Furnace) & S-4160 (TKC F-420 Furnace) under RLOP Permit

Condition #10160

For	S-90	S-285	S-697	S-942	S-1342	S-1614
	S-98	S-286	S-698	S-945	S-1430	S-1615
	S-172	S-579	S-877	S-946	S-1457	S-1629
	S-179	S-580	S-881	S-985	S-1483	S-1630
	S-189	S-614	S-903	S-986	S-1484	S-1631
	S-199	S-618	S-904	S-987	S-1536	S-1740
	S-233	S-622	S-906	S-1022	S-1537	S-1741
	S-247	S-633	S-911	S-1023	S-1606	S-1982
	S-248	S-693	S-919	S-1054	S-1607	S-263
	S-694	S-923	S-1069	S-1608	S-3011	S-281
	S-695	S-925	S-1277	S-1609	S-3059	S-282
	S-696	S-940	S-4243	#11-2 Battery, including S-4005 F-101 and		
	S-4307	F-102	S-4260	#1 deoiler Portions of S-32102 and S-32103: 1A		
	rectifier, 4 rectifier, PERCO swe K-4 compressor.					

Per District Regulation 2-4-302.1, use of this Banking

- Certificate shall be restricted to offsetting emissions in the petroleum industry. (basis: Rule 2-4-302.1)

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- This Banking Certificate shall be cancelled if any of the following equipment is ever operated in the Bay Area Air Basin: S-4243 #11-2 Battery, including S-4005 F-101 and S-4307 F-102
S-4260 #1 deoiler

Portions of S-32102 and S-32103: 1A rectifier, 4 rectifier, PERCO sweeteners, -4 compressor.

Storage Tanks:

S-90	S-285	S-697	S-942	S-134	S-1614
S-98	S-286	S-698	S-945	S-1430	S-1615
S-172	S-579	S-877	S-946	S-1457	S-1629
S-179	S-580	S-881	S-985	S-1483	S-1630
S-189	S-614	S-903	S-986	S-1484	S-1631
S-199	S-618	S-904	S-987	S-1536	S-1740
S-233	S-622	S-906	S-1022	S-1537	S-1741
S-247	S-633	S-911	S-1023	S-1606	S-1982
S-248	S-693	S-919	S-1054	S-1607	S-263
S-694	S-923	S-1069	S-1608	S-3011	S-281
S-695	S-925	S-1277	S-1609	S-3059	S-282
S-696	S-940				

(basis: Regulation 2, Rule 4)

Condition #10761 For S-6200 TO S-6239:

- Storage Tanks S-6200 through S-6219 shall be assigned to any portable polyethylene storage tank of approximately 150 barrels capacity. One source number may be assigned to many different tanks over a period of time, but may only be assigned to one tank at any given time. The total "non-permit exempt" liquid throughput for Storage tanks S-6200 through S-6219 shall not exceed 36,000 barrels per calendar year. Each source number shall not store "non-permit exempt" material for more than 180 days during any calendar year. (basis: cumulative increase)
- Storage Tanks S-6220 through S-6239 shall be assigned to any portable steel storage tank of approximately 500 barrels capacity. One source number may be assigned to many different tanks over a period of time, but may only be assigned to one tank at any given time. The total "non-permit exempt" liquid throughput for Storage tanks S-6220 through S-6239 shall not exceed 120,000 barrels per calendar year. Each source number shall not store "non-permit exempt" material for more than 180 days during any calendar year. (basis: cumulative increase)
- Storage tanks S-6200-S-6239 may store any material provided the true vapor pressure is less than 11 psia, and the benzene concentration is less than or equal to that of Reformate. (basis: cumulative increase and toxics)
- Portable Polyethylene Storage Tanks S-6200-S-6219 shall not store materials with a true vapor pressure above 4.0 psia, unless the tank is abated by at least one of the Carbon Adsorption Systems A-6200 through A-6239. (basis: cumulative increase)
- Portable Steel Storage Tanks S-6220-S-6239 shall not store materials with a true vapor pressure above 1.5 psia, unless the tank is abated by at least one of the Carbon Adsorption Systems A-6200 through A-6239. (basis: cumulative increase)
- Carbon Adsorption Systems A-6200 through A-6239 used to comply with Parts 4 or 5 shall each consist

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- of at least two approximately 200 pound carbon canisters arranged in series. (basis: cumulative increase)
7. Carbon Adsorption Systems A-6200 – A-6239 used to comply with Parts 4 and 5 shall each be monitored for concentration at three sample points on a daily basis. This monitoring frequency may be reduced once the breakthrough time is determined for a given material and type of storage tank. One monitoring point shall be placed prior to the first carbon container; the second monitoring point shall be between the first and second carbon containers; the third monitoring point shall be placed after the last carbon container. (basis: cumulative increase)
 8. Carbon Adsorption Systems A-6200-A-6239 shall each maintain a minimum control efficiency of 99% by complying with the following: If the reading at the monitoring point after the last canister is greater than 100 ppm as C1, then each of the carbon containers must be immediately replaced with a container of fresh carbon (basis: BACT)
 9. The monitoring of each Carbon Adsorption System A6200-A6239 used to comply with Parts 4 and 5 shall be conducted with an OVA/FID (flame ionization detector) monitor or District approved alternate monitor. Monitoring shall occur while the tank is breathing out, preferably while the tank is being loaded at more than 90% of the tank's maximum loading rate. If the tank is not likely to breathe out during the day, monitoring shall be conducted between the hours of 10:00 am and 2:00 pm. (basis: cumulative increase)
 10. The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position. (basis: cumulative increase)
 11. To demonstrate compliance with the above conditions, the owner/operator of Storage Tanks S-6200-S-6239 shall either maintain the following records at a central refinery location in a District Approved log, or shall be able to generate these records on short notice:
 - A. The types of "non-permit exempt" materials stored and dates that the materials were stored in a given tank.
 - B. The total daily throughput of "non-permit exempt" material stored, summarized on a monthly basis.
 - C. If the emissions from a tank are not abated by a Carbon Adsorption System, the true vapor pressure of any "non-permit exempt" material must be measured and recorded on the day the tank is filled.
 - D. The date that each carbon container was taken out of service.(basis: cumulative increase)
 12. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional A/C/PTO. All measurements, records and data required to be maintained by the applicant shall be retained at least five years following the date the data is recorded." (basis: cumulative increase, toxics)

Condition #10908 For S-1489:

1. Throughput at S-1489 shall not exceed 2,500,000 barrels of non-exempt stock during any consecutive 12-month period. (basis: (cumulative increase)
2. Deleted
3. The storage vapor pressure of any mixture stored in S-1489 shall not exceed 6.2 psia. The concentration of benzene of material stored shall not exceed 4.9 vol%. (basis: cumulative increase and toxics)

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4. The owner/operator of S-1489 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with ~~Part~~ 1. These records shall be summarized on a monthly basis, and may be in the of computer generated data which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of five years. (basis: cumulative increase)

Condition #10909 For S-992:

1. Throughput at S-992 shall not exceed 6,000,000 Bbls of non-exempt stock in any consecutive 12-month period. (basis: cumulative increase).
2. Deleted.
- ~~3.~~ 3. The storage vapor pressure of any mixture stored in S-992 shall not exceed 9.0 psia. The concentration of benzene of materials stored shall not exceed 4.9 vol%. (basis: toxics and cumulative increase)
- ~~4.~~ 4. The owner/operator of S-992 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Part 1. These records shall be summarized on a monthly basis, and may be in the of computer generated data which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of five years. (basis: [recordkeeping](#))

Condition #10967 For S – 1052:

1. Total diesel fuel additive throughput at S-1052 shall not exceed 46,000 gallons (1095 Bbls) during any consecutive 12-month period. (basis: cumulative increase BACT)
2. S-1052 may store the fuel additives 2-ethylhexyl nitrate, Nalco Flomor 5375 Cold Pour Improver, or Dupont Corrosion Inhibitor DCI #4A, or any other fuel additive provided the storage vapor pressure does not exceed that specified in BAAQMD Regulation 8, Rule 5 § 117 (TVP< 0.5 psia), and S-1052's emissions do not exceed the levels that trigger a District Toxic risk Screen. (basis: Regulation 8, Rule 5 and toxics)
3. The owner/operator of S-1052 shall maintain monthly records of fuel additive throughput in a District approved log. These records shall be retained on site for a minimum of five years from the date of entry and made available to District personnel upon request. (basis: cumulative increase, Regulation 8, Rule 5, toxics)

Condition #11024 For S-3185:

- *1. Throughput at S-3185 shall not exceed 20,000,000 Bbls of non-exempt stock during any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
- *3. The storage vapor pressure of any mixture stored in S-3185 shall not exceed 0.30 psia. The concentration of benzene of materials stored shall not exceed 0.1 vol%. (basis: cumulative increase and toxics)
- *4. The owner/operator of S-3185 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Part 1. These records shall be summarized on a monthly basis, and may be in the of computer generated data which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of five years. (basis: cumulative increase and toxics)

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Condition # 11025

Plant 10, Application #7919

For S-3106 at Plant 10:

1. The owner/operator of S-3106 shall not exceed 30,000,000 barrels of crude oil throughput during any consecutive twelve-month period. The owner/operator may store materials other than crude oil provided that the owner/operator demonstrates that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels. ([Basis:](#) BACT)
2. The owner/operator shall maintain a zero gap seal between the tank shell and the tank's dual seals. ([Basis:](#) Regulation 8, Rule 5/BACT)
3. The owner/operator of S-3106 shall only store materials with a vapor pressure that shall not exceed 11.0 psia. The concentration of benzene of materials stored shall not exceed 2.0 wt.%. ([Basis:](#) BACT/Toxics)
4. The owner/operator of S-3106 shall maintain records of storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. ([Basis:](#) BACT)
5. The owner/operator shall control S-3106 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank. ([Basis:](#) BACT/TBACT)

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well (amended per AN 7919)	Slotted with a pole sleeve that projects below liquid surface, a zero-gap pole wiper, and a exterior flexible barrier/cover that covers all of the slots
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Adjustable, with vapor seal boot
Rim vent	Weighted mechanical actuation, Gasketed

6. The owner/operator of S-3106 shall inspect the exterior flexible barrier/cover to determine that it is functioning properly and has no holes or leaks at least twice per calendar year at 4 to 8 month intervals. ([Basis:](#) BACT)

Condition #11066 For S-4285:

1. Feed rate to the FCC reactor S-4285 shall not exceed 80,000 BPD averaged over any calendar year, nor 90,000 BPD over any calendar day. (basis: 2-1-301)
2. The owner/operator shall conduct a District approved source test on every fifteenth day that S-4285 throughput exceeds 80 MBPD, and annually thereafter. The test shall analyze for POC and PM10. The District shall review and revise the frequency of the source testing of S-4285 at the time of annual permit renewal based on the result-s of previous tests. (basis: BACT)

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3a. SO₂, NO_x, CO, POC, PM₁₀ emissions shall not exceed the following limits in any– consecutive 12 month period

SO_x – 2199.4 tpy;
NO_x – 1504.7 tpy;
CO – 258.4 tpy;
POC – 6.1 tpy;
PM₁₀ – 92 tpy

The emission baseline used in this permit condition are only applicable for the purpose of limiting emissions to pre-project (non-modified) levels and are not necessarily acceptable for the purposes of emissions banking per Regulation 2, Rule 4. (basis: offsets exemption)

3.b. The owner/operator of S-4285 catalyst regenerator shall not exceed 1 pound of PM emissions per 1000 pounds of coke burn-off as determined by EPA Method 5B or 5F. PM emissions during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize PM emissions are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS subparts A and J for PM. ([Basis](#): NSPS Subparts A and J, Consent Decree case No. 03-04650, 6/27/05)

3.c. The owner/operator of S-4285 catalyst regenerator shall not exceed 30% opacity (6-minute average basis). Opacity during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize opacity are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for opacity. ([Basis](#): NSPS Subparts A and J, Consent Decree case No. 03-04650, 6/27/05)

4.a. The concentration of SO₂ emitted from S-4285 shall not exceed 330 ppmv/24 hour, corrected to 3% O₂. (basis: BACT)

4.b. The owner/operator of S-4285 shall not exceed 25 ppmvd SO₂ @ 0% O₂ on a 365 day rolling average and 50 ppmvd SO₂ @ 0% O₂ on a 7 day rolling average (effective 10/31/06). SO₂ emissions during startup, shutdown, or malfunction shall not be used in determining compliance with this 7 day rolling average SO₂ emission limit, provided that good air pollution control practices to minimize SO₂ emissions are implemented during these periods. (basis: consent decree case # 03-04650, date: 6/27/05)

5.a. The concentration of NO_x emitted at S-4285 shall not exceed 220 ppmv/24 hour, or 180 ppmv/30 day, or 150 ppmv/year, corrected to 3% O₂. (basis: BACT)

5.b. The owner/operator of S-4285 shall not exceed 20 ppmvd NO_x @ 0% O₂ on a 365 day rolling average basis and 40 ppmvd NO_x @ 0% O₂ on a 7 day rolling average basis (effective 6/27/05). NO_x emissions during startup, shutdown or malfunction shall not be used in determining compliance with this 7 day rolling average NO_x emission limit, provided that good air pollution control practices to minimize NO_x emissions are implemented during these periods. (basis: consent decree case # 03-04650, date: 6/27/05)

6a. The concentration of CO emitted from S-4285 shall not exceed 67 ppmv/30 day, or 50 ppmv/year, corrected to 3% O₂, dry. (basis: BACT)

6b. The owner/operator of S-4285 shall not exceed 500 ppmv CO corrected to 0% O₂, on a 1-hour average basis. CO emissions during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize CO emissions are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for CO. ([basis](#): NSPS Subparts J, Consent Decree case No. 03-04650, 6/27/05)

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6c. The owner/operator of S-4285 shall not exceed 100 ppmv CO corrected to 0% O₂, on a rolling 365-day average basis. (basis: Consent Decree case No. 03- 04650, Section D.26, 6/27/05)

6d. Chevron shall install, certify, calibrate, maintain, and operate the FCC NO_x, CO and O₂ CEMs in accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMs (excluding those provisions applicable only to Continuous Opacity Monitoring Systems) and Part 60 Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60 Appendix B. With respect to 40 C.F.R. Part 60, Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Chevron must conduct either a Relative Accuracy Audit (“RAA”) or a Relative Accuracy Test Audit (“RATA”) on each CEMS at least once every three (3) years. Chevron must also conduct Cylinder Gas Audits (“CGA”) each calendar quarter during which a RAA or a RATA is not performed. Chevron may conduct a Field Accuracy Test (“FAT”) as defined in BAAQMD regulations or procedures in lieu of the required RAA or CGA. With respect to the O₂ CEMS required by this Paragraph, in lieu of the audit points specified in 40 C.F.R. Part 60, Appendix F § 5.1.2., Chevron may audit the O₂ CEMS at 20-30% and 50-60% of the actual O₂ CEMS span value.- . (basis: Consent Decree case No. 03- 04650, Sections D.20, D.29)

7A. The TSP emitted from S-4285 after abatement shall not exceed 21 lbs/hr, averaged over any consecutive 365 day period using the time weighted average of all District-accepted third party and District performed source tests conducted on S-4285. District accepted third party tests shall be defined as those tests that meet all of the criteria in 7b. (basis: BACT)

To demonstrate compliance with the 21 lb/hr emission limit, owner/operator shall calculate the time weighted average of all District accepted third party and District performed particulate source tests conducted on S-4285 over the 365 day period preceding the most recent source test. Within 45 days of test completion, owner/operator shall calculate the time weighted average and submit the calculation with comprehensive report of the test results to the District’s Source Test Manager for review. The calculation shall be done using the following procedure:

The start of the calculation period shall be the source test date that is closest to 365 consecutive days and at least 345 days back from the current test date.

All District-accepted and District performed source tests that occur from the start of the calculation period shall be included in the time weighted average.

The time-weighted average of all included test results is calculated by summing the average test results from each time interval, then multiplying each average by the period of that interval, then dividing by the sum of all intervals in the calculation period.

See equation 1 below:

Rave= summation of $i=1$ to $i=f-1$ ($t_i * ((R_i + R_{i+1}) / 2)$)

Summation of $I=1$ to $I=f-1$ (t_i)

Rave = time weighted average of test results

R1 = results from first included source test

R_i = results from source test i

R_f = results from most recent source test

t_i = time interval between included source tests R_i and R_{i+1}, days

The electrostatic precipitator (ESP) abating S-4285 shall be fully charged at all times of operation, except during periods of maintenance or servicing. The ESP abating S-4285 shall be properly maintained and kept in good working order. This shall include the following:

(A1) Inspect each ESP rapper at least once per day. Inspection shall consist of visual inspection of

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the rapper control settings and status lights. Individual rappers found to out of service should be identified and appropriate repairs performed on the rappers. Owner/operator shall repair rappers that fail due to temporary short circuit or circuit overload that blow a fuse within 2 working days of ID. Owner/operator shall repair working rapper that fail due to an electric/electronic part within 30 days of ID. These dates may be adjusted upon approval of the District New Source Review Manager. (basis: BACT)

- (A2) A hopper level indicator of alarm on each ESP hopper in order to prevent overfilling of the hoppers. (basis: BACT)
- (A3) Monitor and record Transformer Rectifier (TR) set secondary current readings on a daily basis. (basis: BACT)
- (A4) Install a temperature monitor and recorder at the inlet to the ESP. The inlet temperature of the ESP shall be maintained at a minimum of 550F averaged over any one hour period. An alarm shall be set in such a manner as to indicate temperature excursions below 550F.(basis: BACT)
- (A5) The average secondary current of any TR set shall not be less than 200 milliamps averaged over any 3 hour period, or the secondary current of up to 2 TR sets may be less than 200 milliamps, averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period. An alarm shall be set in such a manner as to indicate secondary excursions below 200 milliamps. (Condition altered in Application #18188 dated 2/25/98 to allow for 2 TR sets to be below 200 milliamps)

The parametric conditions in condition #11066 may be adjusted administratively, if District-approved source test data demonstrate to the satisfaction of the APCO that alternate parametric conditions are necessary for or capable of maintaining compliance with an emission limit of 21.0 lbs/hr TSP as determined by US EPA method 5b, or other District approved equivalent. (basis: BACT)

- 7B. The average yearly TSP emissions rate of S-4285 shall be determined by US EPA method 5b. The owner/operator of S-4285 shall hire a 3rd party source testing firm to perform at least 4 source tests per calendar year to determine the hourly TSP emission rate of S-4285. Each source test shall be performed in accordance with the District's MOP. The owner/operator of S-4285 shall notify the District source Test manager and the Permit Services Division at least 7 days prior to the test, to provide the District staff the option of observing the test. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the District's Source Test Manager for review and disposition. The District may choose to perform any of the tests in place of the private contractor. At least one test shall be performed on every January 15, April 15, July 15, and October 15. These dates may be adjusted by not more than 10 working days upon approval of the District Source Test Manager. If this source test window partially or completely overlaps a plant shutdown and its 7-day startup period, the source test shall be conducted within 14 days of plant startup.(basis: BACT)
- 7C. To demonstrate compliance with 7a and 7b, the owner/operator of S-4285 shall maintain in a District approved log,updated monthly, all of the following:
 - TSP emission source test results on S-4285, lbs/hr.
 - The number of days between each source test.
 - Calculated time weighted average TSP emissions in lbs/hr, for each source test conducted.
 - Daily rapper inspection records indicating working condition and repairs.
 - The number of broken rapper ceramic failures found during turnarounds.
 - Daily ESP TR set secondary current readings; and
 - ESP inlet temperature records.(basis: BACT)

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8. The owner/operator of S-4285 shall conduct a District approved source test within 30 days of startup to verify the accuracy of the SO_x, NO_x, CO, O₂ monitors, and also measure the POC and TSP. (basis: BACT)
9. The owner/operator of S-4285 shall continuously monitor and record SO_x, NO_x, and CO emissions from the FCCU regenerator outlet measuring only regenerator flue gas. Any new CEMs shall be reviewed and pre-approved by the District source Test Manager. (basis: BACT)
10. In addition to the above conditions, the owner/operator shall comply with either of the following and calculated in accordance to 40 CFR 60.106:
 - (A) Maintain emission at or below 9.8 lbs of sulfur dioxide per 1000 lb of coke burn off, averaged over a 7 day rolling basis. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for SO₂. (basis: NSPS Supart J, Consent Decree case No. 03-04650, 6/27/05)
 - (B) Process in FCC fresh feed that has a total sulfur content no greater than 0.30% by weight, averaged over a 7 day rolling basis. (basis: 40 CFR 60.106)
11. The owner/operator of S-4285 shall maintain a daily log of all SO_x, NO_x, and CO emissions, lb SO_x/1000 lb coke burn – 7 day rolling–average, total sulfur content in feed – 7 day rolling average, total throughput, and source test data. This log shall be available to District staff upon request. (basis: BACT)
12. The owner/operator shall source test for heavy metals and PAHs within 90 days of startup. (basis: BACT)
13. The owner/operator of S-4285 shall shut down S-15 Steam Generator upon startup of S4285. (basis: BACT)
14. The owner/operator of S-4285 will not be required to meet the emission limits contained in parts 4 – 7 for a period of 30 days after initial startup, or 7 days after any subsequent startups. (basis: BACT)
- *15. Ammonia injected to pre treat flue gas feed into A0014 ESP shall not exceed 500 lbs/hr.” (basis: toxics)
16. With respect to the FCC SO₂ and O₂ CEMS (Section 20 of consent decree), Chevron shall install, certify, calibrate, maintain, and operate the CEM accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMs (excluding those provisions applicable only to Continuous Opacity Monitoring Systems) and Part 60 Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60 Appendix B. With respect to 40 C.F.R. Part 60, Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Chevron must conduct either a Relative Accuracy Audit (“RAA”) or a Relative Accuracy Test Audit (“RATA”) on each CEMS at least once every three (3) years. Chevron must also conduct Cylinder Gas Audits (“CGA”) each calendar quarter during which a RAA or a RATA is not performed. With respect to its Richmond Refinery, Chevron may conduct a Field Accuracy Test (“FAT”) as defined in BAAQMD regulations or procedures in lieu of the required RAA or CGA. With respect to the O₂ CEMS required (Section A.15, B.20, and D.29 of consent decree) to correct emission measurements form S-4285, in lieu of the audit points specified in 40 CFR Part 60 Appendix F Section 5.1.2, the owner/operator may audit the O₂ CEMs at 20-30% and 50-60% of the actual O₂ CEMs span value. (basis: Consent Decree case No.03-04650, Section 20, 6/27/05).

Condition #11208 For ~~S-870, S-1909, S-1911, S-6125:~~

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~~For S-870 at Plant 10~~

- ~~1. Throughput at S-870 shall not exceed 4,500 barrels of non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)~~
- ~~2. The storage vapor pressure of any mixture stored in S-870 shall not exceed 0.40 psia. (basis: cumulative increase)~~
- ~~3. S-870 may store the fuel additives DCI-4a, DMD-2, and AO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)~~
- ~~4. The owner/operator of S-870 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: cumulative increase and toxics)~~

~~For S-1911 at Plant 10:~~

- ~~1. Throughput at S-1911 shall not exceed 9,900 barrels of non-exempt stock during any consecutive twelve-month period. (basis: (cumulative increase))~~
- ~~2. The storage vapor pressure of any mixture stored in S-1911 shall not exceed 0.40 psia. (basis: (cumulative increase))~~
- ~~3. S-1911 may store the fuel additives DCI-4a, DMD-2, and AO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)~~
- ~~4. The owner/operator of S-1911 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 52 years. (basis: cumulative increase and toxics)~~

For S-6125 at Plant 10

1. Throughput at S-6125 shall not exceed 1,400 barrels of non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)
2. The storage vapor pressure of any mixture stored in S-6125 shall not exceed 0.40 psia (basis: cumulative increase)
3. S-6125 may store the fuel additives DCI-4a, DMD-2, and AO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)
4. The owner/operator of S-6125 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for

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a minimum of 5 years. (basis: cumulative increase and toxics)

~~For S-1909 at Plant 10:~~

- ~~1. Throughput at S-1909 shall not exceed 11,700 barrels of non-exempt stock during any consecutive twelve month period. (basis: (cumulative increase)).~~
- ~~2. The storage vapor pressure of any mixture stored in S-1909 shall not exceed 0.40 psia. (basis: (cumulative increase))~~
- ~~3. S-1909 may store the fuel additives DCI 4a, DMD 2, and AO 735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics).~~

~~The owner/operator of S-1909 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 52 years. (basis: cumulative increase and toxics)~~

Condition #11228 For S – 957:

For S-957, Tank 957 - Fixed Roof Tank, 3272K gal, Iron brown, Jet ““A”” fuel, 120 ft diameter

1. Except for Jet ““A””, only a material exempt from permits per Regulation 2-1-123.3 shall be stored in S-957. (basis: offsets/cumulative increase)
2. The total Jet ““A”” throughput for S-957 shall not exceed 7.011 million barrels during any consecutive 12month period. (basis: offsets/cumulative increase)
3. S-957's throughput of material exempt from permits per Regulation 2-1-123.3 shall be limited so that its emissions will not exceed 15 pounds per day.
4. In order to demonstrate compliance with the above conditions, the owner/operator of S-957 shall maintain the following records in District approved log. These records may be in the form of computer generated data. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (basis: cumulative increase)
 - (a) The type of all materials stored and the dates that the materials were stored.
 - (b) The total daily throughput of each material stored, summarized on a monthly basis.

Condition #11436 For S-1653:

1. Throughput at 1653 shall not exceed 750,000 Bbls of non-exempt stock for a calendar year. (basis: cumulative increase)
2. S-1653 may store jet fuel, jet line wash, diesel, diesel line wash, mixtures of jet and diesel, or any material exempt from permitting per regulation 2-1-123.3. (basis: cumulative increase)
3. The material stored in S-1653 shall not have a vapor pressure greater than 0.5 psia (basis: cumulative increase)
4. In order to demonstrate compliance with parts #1 and #2, the owner/operator of S-1653 shall maintain records of the following records in a District approved log. (Jet fuel, Jet line wash, diesel line wash or any mixture of jet and diesel shall be assumed to be non-exempt and count toward the throughput limit in part #1 unless it is exempt per Regulation 2-1-123.3. Pure diesel shall not count toward the throughput limit in part #1 since it is exempt per Regulation 2-1-123.3.) These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on site

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for a minimum of 5 years from the date the record was made.

- (a) The type of all materials stored and ~~—ede~~ the dates that the materials were stored.
- (b) The total daily throughput of each material stored, summarized on a monthly basis. ”””
(basis: Cumulative increase)

Condition #12104 For S-3214:

1. Total throughput for the external floating roof tank (S-3214) shall not exceed 3,000,000 Bbls during any 12 consecutive month period. (basis: cumulative increase)
2. Only refinery stock meeting all of the following requirements shall be stored in S-3214:
 - (a) True vapor pressure less than or equal to 11.0 psia
 - (b) Benzene Content less than or equal to 5.5%wt
 - (c) Toxic air contaminant emissions not exceeding their respective BAAQMD risk screening trigger levels. (basis: cumulative increase and toxics)
3. To demonstrate compliance with the above conditions, the following records shall be kept onsite and made available for District inspection for a period of 60 months from date on which the record is made:
 - (a) The Material stored.
 - (b) The true vapor pressure of the material
 - (c) The benzene content of the material.
 - (d) The monthly throughput.(basis: cumulative increase and toxics)
4. Chevron shall provide Emission Reduction Credits in the amount of 3.28 TPY of POC for this project (Application #14518). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual permit renewal. (Done 4/17/95, along with 3189Tk, and 3213Tk) (basis: offsets)

Note 1. Tank 3214 (S-3214) shall be controlled by a metallic shoe primary seal that extends below the liquid surface, and a zero gap secondary seal. There shall be no ungasketed roof fittings. Except for the roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Emission Factors, AP-42, Supplement E, Section 13.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank:

Fitting Type	Control Technique
Access Hatch	Bolted cover, gasketed
Guide pole/Well	Solid, OR Slotted with controls per API 2517 Addendum (See note 1) "Enviroseal" meets this control requirement for a slotted well.
Gauge Float well	Gasketed
Gauge Hatch/Sample Well	Weighted Mechanical Actuation, gasketed
Roof Drain	Roof drain does not drain water into product
Roof Leg	Adjustable, with vapor seal boots
Rim Vent	Weighted mechanical actuation, gasketed

- Note 1 Slotted guide Pole Control Configuration, per addendum to API Publication 2517, May 1994, shall include the following components: (CAPITALs indicate configuration/approval of Ultracheck "Enviroseal" System)
- (a) Sliding Cover
 - (b) Well Gasket
 - (c) Pole sleeve with pole wiper approximately 6 inches above sliding cover, OR NON-PERMEABLE FABRIC SKIRT FUNCTIONING AS A POLE SLEEVE, or District approved equivalent

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- (d) Float with float wiper approximately 1 inch above sliding cover, OR
ALTERNATELY A FLOAT WITH MULTIPLE WIPERS.-(basis: BACT)

Condition #12139 For S – 3213:

1. Total throughput of non-permit exempt stocks for the external floating roof tank (S-3213) shall not exceed 9,100,000 Bbls during any 12 consecutive month period. (basis: (cumulative increase)
2. Only refinery stock meeting all of the following requirements shall be stored in S-~~3214~~3213:
 - (a) true vapor pressure less than 11.0 psia
 - (b) benzene content less than 5.5% wt
 - (c) toxic air contaminant emissions not exceeding their respective BAAQMD risk screening trigger levels. (basis: cumulative increase and toxics)
3. To demonstrate compliance with the above conditions, the following records shall be kept onsite and made available for District inspection for a period of 60 months from date on which the record is made:
 - (a) The material stored.
 - (b) The true vapor pressure of the material.
 - (c) The benzene content of the material.
 - (d) The monthly throughput.
(basis: cumulative increase and toxics)
4. Chevron shall provide Emission Reduction Credits in the amount of 4.72 TPY of POC for this project (Application #14448). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual 1995 (for the year 95-96) permit renewal. (Done 4/17/95, along with 3189Tk, and 3214Tk). (basis: offsets)
5. Deleted.
6. Tank 3213 (S-3213) shall be controlled by a metallic shoe primary seal that extends below the liquid surface, and a zero gap secondary seal. There shall be no ungasketed roof fittings. Except for the roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Emission Factors, AP-42, Supplement E, Section 13.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank:

Fitting Type	Control Technique
Access Hatch	Bolted cover, gasketed
Guidepole/Well	Solid, OR Slotted with controls per API 2517 Addendum (See note 1) Ultracheck "Enviroseal" meets this control requirement for a slotted well.
Gauge Float well	Gasketed
Gauge Hatch/Sample Well	Weighted Mechanical Actuation, gasketed
Roof Drain	Roof drain does not drain water into product
Roof Leg	Adjustable, with vapor seal boots
Rim Vent	Weighted mechanical actuation, gasketed

Note 1 : Slotted guide Pole Control Configuration, per addendum to API Publication 2517, May 1994, shall include the following components: (CAPITALS indicate configuration/approval of Ultracheck "Enviroseal" System)

- (a.) Sliding Cover
- (b.) Well Gasket

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Pole sleeve with pole wiper approximately 6 inches above sliding cover, OR NON-PERMEABLE FABRIC SKIRT FUNCTIONING AS A POLE SLEEVE, or District approved equivalent Float with float wiper approximately 1 inch above sliding cover, OR ALTERNATELY A FLOAT WITH MULTIPLE WIPERS.””(basis: BACT)

Condition #12177 For S-3139

1. This Banking Certificate shall be cancelled if any of the following equipment (S-3139) is ever used to store non-permit exempt stock in the Bay Area Air Basin : S-139, Storage Tank T-3139 – 199087 gals.””(basis: Regulation 2, Rule 4)

Condition #12580 For S-1821 and S-1894:

Application # 14858, Condition #12580 and #18137 for S-1821 & S-1894:

For S-1821 and 1894, sulfuric acid and phosphoric acid storage tanks at Plant #10:

- *1. The owner/operator of these sources shall not store in these sources any non-permit exempt liquids, except sulfuric acid in S-1821, and phosphoric acid in S-1894””(basis: toxics)

Condition # 12842 For S-6250:

- ~~1. S 6250 Oil Water Separator shall be vented at all times to at least two 1800 pound activated carbon vessels arranged in series. (basis: cumulative increase)~~
- ~~2. A 630 Carbon shall be replaced by A 631 carbon upon the detection of 10% of the inlet stream concentration to the carbon bed as measured by a flame ionization detector (OVA FID) or other method approved in writing by the APCO. A 631 shall then be replaced by unspent carbon. (basis: cumulative increase)~~
- ~~3. A 631 Carbon shall be changed out with unspent carbon upon detection of breakthrough or 10 ppmv as C1 as measured with a flame ionization detector (OVA FID) or other method approved in writing by the APCO. (basis: cumulative increase)~~
- ~~4. The limits set forth in Parts # 2 and # 3 shall apply to non-methane hydrocarbon emissions. To determine the presence of methane in the exhaust stream, a reading shall be taken with and without a carbon filter tip fitted on the OVA FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions. (basis: cumulative increase)~~
- ~~5. The operator of this source shall monitor with a FID or other method approved in writing by the APCO at the following locations:
A. At the exhaust of S-6250; the inlet to A-630.
B. At the exhaust of A-630; the inlet to A-631.
C. At the outlet of A-631.

(basis: cumulative increase)~~
- ~~6. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to:
A. Calculate the time of predicted breakthrough of organics after carbon adsorption to maintain compliance with part 3.
B. Estimate the frequency of carbon change out necessary to maintain compliance with part 2.
C. To maintain compliance with parts 2 and 3 the monitoring shall be conducted once during each 24 hour period of operation. At least one monitoring event shall take place during each period when S-6250 is in service. The operator of this source may propose for District review, based on actual~~

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~~measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District must be received by the applicant prior to a change to the monitoring schedule. (basis: cumulative increase)~~

7. ~~The operator of this source shall maintain the following information in a District approved log for each month of operation of the source:~~
- ~~(a) The hours of operation.~~
 - ~~(b) Each monitor reading or analysis result for the day of operation they are taken.~~
 - ~~(c) The calculation of organic breakthrough from the carbon beds. The number of carbon beds removed from service.~~

~~Any exceedance of parts 2 and/or 3 shall be reported to the Permits Division with the log as well as the corrective action taken. In addition, an exceedance of parts 2 and/or 3 shall be submitted to the District Enforcement Section at the time it occurs. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: cumulative increase)~~

8. ~~The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least five years following the date the data is recorded. (basis: cumulative increase)~~

Condition# 13008 For S-3201, Whole Alkylate Storage Tank, 170,500 BBL, at Plant #10:

1. Total throughput of non-permit exempt stocks for the external floating roof tank (S-3201) shall not exceed 7,300,000 barrels during any consecutive 12 month period. (basis: ~~basis:~~ cumulative increase)
2. The owner/operator of S-3201 may store refinery petroleum hydrocarbon stocks other than alkylate as long as the true vapor pressure is 6.0 psia or less and the toxic risk from the tank does not increase. (basis: cumulative increase and toxics)
3. To demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of 60 months from the date on which a record is made.
 - (a) The material stored
 - (b) The true vapor pressure of the material
 - (c) The monthly throughput(basis: cumulative increase and toxics)
4. Deleted.
5. S-3201 shall be controlled by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well	Solid, or Slotted with controls per API 2517 Addendum (See Note 1below)
Gauge float well	Gasketed
Gauge hatch/Samplewell	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed

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Roof drain	Roof drain does not drain water into product
Roof leg	Adjustable, with vapor seal boot
Rim vent	Weighted mechanical actuation, gasketed

Note 1: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- A. Sliding cover
- B. Well gasket;
- C. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or non-permeable fabric skirt functioning as a pole sleeve, or District approved equivalent;
- D. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers. (basis: BACT)

Condition #13364 For S – 3202: S-3202 Tank Methanol Storage Tank

Application No 29494 (Construct Dome)

Deleted.

COND# 13364

Operation of S-3202 Methanol Storage Tank, 150,000 BBL, is subject to the following conditions:

1. The owner/operator of S-3202 shall not exceed 4,000,000 barrels throughput of non-exempt stock in any consecutive 12 month period. (basis: BACT)
2. The owner/operator may store petroleum hydrocarbon stocks other than methanol as long as the true vapor pressure is 8.33 psia or less and emissions of toxic compounds do not exceed any risk screening trigger level. (basis: BACT)
3. The owner/operator of S-3202 shall not store any materials with a benzene concentration that exceeds 8.1% by weight. In order to demonstrate compliance with this condition the owner/operator shall conduct quarterly tests to determine the benzene concentration. The owner/operator of S-3202 may use specification sheets when available instead of quarterly testing. (basis: toxics)

4. The owner/operator of S-3202 shall control organic emissions from the external floating roof tank by installing a dome, a mechanical shoe primary seal that extends below the liquid surface, and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval. (basis: BACT)

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~~4. The owner/operator of S-3202 external floating roof tank shall be equipped with a metallic shoe primary seal that extends below the liquid surface and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval. (basis: BACT)~~

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well	unslotted guide pole, gasketed sliding cover with wiper; or slotted with a liner from the top of the well to below the roof when landed on its legs
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Fixed; or Adjustable, with vapor seal boot, or gasket between roof leg and leg sleeve
Rim vent	Weighted mechanical actuation, gasketed

5. The owner/operator of S-3202 shall maintain a district approved log of all throughput, vapor pressure, and either specification sheets or quarterly tests for benzene concentrations for all materials stored in S-3202. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: record keeping)

~~Condition #13366 For S-3207:~~

~~S-3207 Tank FCC Heavy Gasoline Tank~~

- ~~1. Throughput for non-exempt stocks shall not exceed 900,000,000 Bbls in any consecutive 12-month period. (basis: cumulative increase)~~
- ~~2. The owner/operator of S-3207 may store petroleum hydrocarbon stocks other than FCC Heavy Gasoline as long as the True Vapor Pressure is 6.2 psia or less, and the toxic risk from the tank does not increase. (basis: cumulative increase and toxics)~~
- ~~3. All gauge wells shall have no slot above the liquid level. All guide poles with organic liquids in them shall have floats with wiper seals.” (basis: cumulative increase)~~

~~Condition #13369 For S-4282, S-4346, S-4348, S-4355, S-4357, S-4358:~~ ~~Conditions on Fugitive Emissions~~

~~Operation of new or modified equipment in the following plants:~~

- ~~1. Butamer Section of DIB/Butamer Plant (S-4355)~~
- ~~2. C4 Treating Plant (S-4357)~~
- ~~3. FCC Gasoline Hydrotreater (S-4358)~~
- ~~4. Hydrogen Recovery Plant Modernization (S-4348)~~
- ~~5. Gas Recovery Unit (S-4346)~~

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shall be subject to the following conditions:

1. The owner/operator shall use flanges equipped with graphite-based gaskets (Teflon-based gaskets for acid service), metal ring joints, or District approved equivalent technology. (basis: BACT)
2. For valves that are 2 inches or less and on process streams with greater than 2 wt% benzene, the owner/operator shall wherever feasible (but no less than 95% of these valves) use bellows-sealed valves or District-approved equivalent technology. All other valves shall be live-loaded or graphitic-packed valves (Teflon/graphitic packed valves for acid service), or District-approved equivalent technology. (basis: BACT and toxics)
3. For all light-liquid pumps and compressors, the owner/operator shall have their shaft seals vented to a District-approved abatement device that achieves a minimum of 95% VOC destruction efficiency or District approved equivalent technology. (basis: BACT)
4. For all heavy liquid pumps, the owner/operator shall use double mechanical seals or District approved equivalent technology. (basis: BACT)
5. The owner/operator shall vent all pressure relief valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)
6. For all process drains, the owner/operator shall use the “p-trap” design or District approved equivalent technology. (basis: BACT)
7. The owner/operator shall inspect fugitive sources with greater than 10 wt% benzene on a monthly basis per NESHAP 40 CFR 61. Other non-exempt valves, pump seals, and compressor seals shall be inspected on a quarterly schedule per District Regulation 8, Rules 18 and 25. (basis: NESHAP 40 CFR 61 and Regulation 8, Rules 18 and 25)
8. Valves and flanges shall be subject to a 100 ppm leak detection limit. Pump seals and compressor seals shall be subject to a 500 ppm leak detection limit. [basis: Regulation 8, Rule 18]
9. The total fugitive POC emissions increase as a result of the entire Reformulated Gasoline Project and FCC Modernization Project (Application No. 18240) shall not exceed 76.4 tons per year. The owner/operator shall submit a revised pump, compressor, valve, flange, and pressure relief valve count within 60 days of start-up in order to confirm compliance with this limit. If the total fugitive POC emissions increase, calculated in accordance with District procedures, is not equal to 76.4 tons per year, then the District will adjust the change in cumulative increase attributed to this permit application’. (basis: cumulative increase)

Condition #13370

3. S-6016 & S-6019 flare pilots shall be fueled continuously with natural gas or refinery fuel gas. The flare will be operated only during periods of emergency upset or breakdown. Routinely vented process gases may not be flared. (basis: cumulative increase)
4. S-6016 & S-6019 flaring shall be steam-assisted to prevent smoking. (basis: Regulation 2-1-403)

Condition #13467 For S – 3196:

1. Throughput at S-3196 shall not exceed 2,000,000 bbls. During any consecutive month period. (basis: cumulative increase)
2. S-3196 shall only store only petroleum stocks or mixtures with a vapor pressure not to exceed 10.95 psia and benzene content not to exceed 9 wt%, or any other stock that is exempt from District permitting requirements. (basis: cumulative increase and toxics)

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3. The owner/operator of S-3196 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years.”” (basis: cumulative increase and toxics)

Condition 13535 For S-3197

Application 15646

1. Total throughput of non-permit exempt stocks for the external floating roof tank (S-3197) shall not exceed 4,000,000 barrels during any consecutive 12 month period.

2. Only refinery stock meeting all of the following requirements shall be stored in S-3197:

- a. true vapor pressure less than or equal to 6.2 psia,
- b. benzene content less than or equal to 8.1% by weight, and
- c. toxic air contaminant emissions not exceeding their respective District risk screening trigger levels.

3. In addition to products that may be stored in S-3197 as described in Condition #2, S-3197 may also store hydrocarbon compounds with benzene content no greater than 30% by weight and vapor pressure no greater than 11.0 psia for a total of 60 calendar days in any consecutive 12 month period.

4. To demonstrate compliance with the condition #2, the following records shall be kept, on a monthly basis, on site and made available for District inspection for a period of 24 months from the date on which a record is made:

- a. the material stored
- b. the true vapor pressure of the material
- c. the benzene content of the material
- d. the total monthly throughput of material subject to Condition #2 and #3

5. To demonstrate compliance with the Condition #3, the following records shall be kept, on a daily basis, on site and made available for District inspection for a period of 24 months from the date on which a record is made:

- a. the material stored
- b. the date the material was stored

6. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

<u>Fitting Type</u>	<u>Control Technique</u>
<u>Access hatch</u>	<u>Bolted cover, gasketed</u>
<u>Guide pole/Well</u>	<u>Solid, Slotted with controls per API 2517 Addendum (See Note 1 below), or sleeved as specified in District Variance #27121 (with sliding cover and well gasket)</u>
<u>Gauge float well</u>	<u>Gasketed</u>
<u>Gauge hatch/Sample well</u>	<u>Weighted mechanical actuation, gasketed</u>

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<u>Vacuum breaker</u>	<u>Weighted mechanical actuation, gasketed</u>
<u>Roof drain</u>	<u>Roof drain does not drain water into product</u>
<u>Roof leg</u>	<u>Adjustable, with vapor seal boot</u>
<u>Rim vent</u>	<u>Weighted mechanical actuation, gasketed</u>

Note 1: Slotted Guide Pole control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- a. Sliding cover;
- b. Well gasket;
- c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or non-permeable fabric skirt functioning as a pole sleeve, or District approved equivalent;
- d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers.

Condition #13597 For S-1798 at Plant 10:

1. Throughput at S-1798 shall not exceed 7,200,000 barrels during any consecutive twelve-month period. (basis: basis: cumulative increase)
2. Deleted.
3. S-1798 shall only store gasoline, Penhex, Reformate, Jet A, any material that is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure less than Penhex (8.0 psia at 70 deg F) and toxicity less than Reformate (8.1% benzene by weight). (basis: cumulative increase and toxics)
4. The owner/operator of S-1798 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: cumulative increase and toxics)

Condition # 13859 For S – 3134 and 4292:

1. Total throughput of non-exempt stocks for the external floating roof tank (S-3134) shall not exceed 10,000,000 Bbls of Jet fuel , gasoline components, or any other petroleum hydrocarbon material with a vapor pressure (true) less than or equal to 11.0 psia, and benzene content less than or equal to 4.1% by weight during any consecutive 12 month period. (basis: Rule 2-1-234) (basis: cumulative increase and toxics)
2. To demonstrate compliance with Parts #1 , the following records shall be kept, on a monthly basis, on site and made available for District inspection for a period of 60 months from the date on which the record is made:
 - A. the material stored,
 - B. the vapor pressure and benzene content of the material stored,
 - C. the total monthly throughput of material subject to Part #1.(basis: toxics, cumulative increase)””

Condition # 14596 For S – 6051, Application # 13023:

Prior to completion of work authorized under application # 13023:

1. Organic compound emissions from S-6051 shall not exceed 23.7 lb/day, averaged over any consecutive 30-day period. (basis: ~~(cumulative increase)~~

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- ~~2. Total dissolved solids in the S-6051 basin shall not exceed 2000 parts per million (wt), average over any consecutive 30-day period. (basis: cumulative increase)~~
- ~~3. In order to demonstrate compliance with both condition numbers 1 and 2, the owner/operator of S-6051 shall conduct district-approved monthly tests on the cooling water for both POC and TDS. The owner/operator of S-6051 shall maintain a district-approved monthly log of all test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: Recordkeeping)~~

COND# 14596

Chevron USA Products Company; plant 10 Conditions for S-6051, Alky CWT

1. POC emissions from S-6051 shall not exceed 30.2 lb/day, averaged over any consecutive 12-month period. (basis: cumulative increase/offsets)
2. Total dissolved solids in S-6051 basin shall not exceed 2000 parts per million (wt), averaged over any consecutive 30-day period. (basis: cumulative increase)
3. The owner/operator shall install a District-approved continuous hydrocarbon analyzer and recorder to determine the hydrocarbon concentration in the cooling water in Alky Cooling Water Tower (S-6051). The purpose of this analyzer is to serve as an early warning/detection device to indicate a possible heat exchanger leak of process fluid into the cooling water system and to determine compliance with part 1. The analyzer will provide baseline data, which will be statistically evaluated to determine an Action Level. Any hydrocarbon reading above the Action Level will trigger an alarm. The implementation of this permit condition shall be subject to the approval of the district upon startup of the cooling tower. (basis: BACT)
4. Once the alarm is triggered, the owner/operator shall also measure, with a district-approved LEL monitor, the concentration of hydrocarbons in the S-6051 Cooling Tower vapor space as a percent of the lower explosive limit (LEL) once each calendar day while the hydrocarbon reading remains above the Action level. (basis: BACT)
5. The owner/operator of S-6051 shall either repair any leaking heat exchanger, remove the leaking heat exchanger, or otherwise remove the source of the leak within 15 days of detection of the leak as identified by the alarm set at the Action level. If the owner/operator identifies the source of a leak to be E-1404, E-1421, or E-1220 located in the Alkylation Unit (S-4291), or E-400 located in the Yard Deisobutanizer (S-4355), the owner/operator of S-6051 shall remove the leaking heat exchanger from service, or otherwise eliminate the source of the leak, within 30 calendar days or less from the alarm trigger date. If the concentration of hydrocarbons in the cooling tower vapor space exceeds 10 percent of LEL, the owner/operator shall remove the leaking heat exchanger from service, or otherwise eliminate the source of the leak as soon as practicable, but within 15 days or less of exceeding the 10 percent of LEL limit. (basis: BACT)
6. In order to demonstrate compliance with part 2, the owner/operator of S-6051 shall conduct district-approved monthly tests on the cooling water for TDS. The owner/operator of S-6051 shall maintain a district-approved monthly log of all test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: Record keeping)
7. In order to demonstrate compliance with part 1, the owner/operator of S-6051 shall use volatile organic concentration data from the continuous hydrocarbon analyzer from part 3 and the flowrate data from district-approved flowmeters installed at district-approved sample port locations. The owner/operator of S-6051 shall maintain a district-approved daily log of all hydrocarbon analyzer concentration data, flowrate data, and daily

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emissions estimates. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. ([basis](#): 1-523, BACT, Record keeping)

8. The owner/operator of S-6051 shall maintain a district approved daily log of all hydrocarbon analyzer data, flowmeter data, daily emissions data, date and time of all alarms, a summary of the baseline and action levels data, a description of findings and actions taken for each incident above the Action level, and all LEL measurements. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. ([basis](#): Record keeping)

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Condition #14701 For S – 4291 and S-4356:

Operation of new or modified equipment in the following plants

1. Alkylation Plant (S-4291)
2. Deisobutanizer Section of the DIB/Butamer Plant (S-4355)
3. TAME Plant (S-4356)
4. Aromatics Saturation Unit (S-4282)

[The C4 Treating Plant, FCC, FCC Gasoline Hydrotreater, and the Hydrogen Recovery Plant Modernization have not yet been constructed/modified. These sources have been deleted from this part and are subject to Condition #13369, Application No. 18240) shall be subject to the following conditions:

1. The owner/operator shall use flanges equipped with graphite- based gaskets (Teflon-based gaskets for acid service), metal ring joints, or District-approved equivalent technology. (basis: BACT)
2. For valves that are 2 inches or less and are on process streams with greater than 2 wt% benzene, the owner/operator shall wherever feasible (but no less than 95% of these valves) use bellows-sealed valves or District-approved equivalent technology. All other valves shall be live-loaded or graphitic-packed valves (Teflon/graphitic packed valves for acid service), or District approved equivalent technology. (basis: BACT and toxics)
3. For all light-liquid pumps and compressors, the owner/operator shall have their shaft seals vented to a District-approved abatement device that achieves a minimum of 95% VOC destruction efficiency or District approved equivalent technology. (basis: BACT)
4. For all heavy liquid pumps, the owner/operator shall use double mechanical seals or District-approved equivalent technology. (basis: BACT)
5. The owner/operator shall vent all pressure relief valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)
6. For all process drains, the owner/operator shall use the “p-trap” design or District-approved equivalent technology. (basis: BACT)
7. The owner/operator shall inspect fugitive sources with greater than 10 wt% benzene on a monthly basis per NESHAP 40 CFR 61. Other non-exempt valves, pump seals, and compressor seals shall be inspected on a quarterly schedule per District Regulations 8-18 and 8-25. (basis: NESHAP 40 CFR 61 and Rule 8-18)
8. Valves and flanges shall be subject to a 100 ppm leak detection limit. Pump seals and compressor seals shall be subject to a 500 ppm leak detection limit [Basis: Regulation 8, Rule 18]
9. Deleted
10. The total throughput at S-4291 shall not exceed 36,000 barrels per calendar day. (basis: cumulative increase)
11. The owner/operator of S-4291 shall maintain a district approved daily log of all throughput at S-4291. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (basis: cumulative increase)

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Condition #15038 For S – 3133:

1. Total throughput of non-exempt stocks for the external floating roof tank 3133 (S-3133) shall not exceed 15,000,000 MBBls during any consecutive 12 month period. S-3133 shall store jet fuel, gasoline components, or any other petroleum hydrocarbon material with a vapor pressure (TVP) less than or equal to 11.0 psia, and a benzene content less than or equal to 4.1% by weight. In addition, all other toxic air contaminant emissions, not including benzene, shall not exceed their respective risk screening trigger levels. (basis: BACT and Rule 2-1-234)
2. The owner/operator of S3189 shall maintain records the storage tank throughput, type, and TVP in order to confirm compliance with condition 1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (basis: BACT and toxics)
3. To meet the requirements of section 2-2-302, Chevron shall provide to the District Emission Reduction Credits in the amount of 6.16 tons POC per year at least 30 days prior to the date of the 1998 annual permit renewal. ((basis: Regulation 2-2-302)

Condition # 15107 For S – ~~252801~~:

1. The total volume of Automate Blue 8 or Unisol 7 stored in Storage Tank S-~~25-2801~~ shall not exceed 60 barrels (2520 gallons) during any consecutive 12 month period (basis: cumulative increase).
2. The owner/operator of S-~~25-2801~~ shall only store materials with a true vapor pressure not to exceed 0.5 psia. (basis: 8-5-117, and cumulative increase)
3. In order to demonstrate compliance with the above conditions, Chevron shall maintain the following records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date that the record was made. (basis: Records)
 - a. The purchase records that show the amount of Automate Blue 8 or Unisol 7 purchased per month used at S-~~252801~~. The purchased amount shall be considered to be equal to the volume of Automate Blue 8 or Unisol 7 stored. The owner/operator of S-~~25-2801~~ shall also maintain records of the vapor pressures the materials used.

Condition #15671 For S – 1635:

1. Total throughput for non-exempt stocks for S-1635, internal floating roof tank, shall not exceed 2,000,000 barrels in any consecutive 12 calendar month period. (Basis: Cumulative Increase)
2. The Permit Holder may store petroleum hydrocarbon stocks other than gasoline as long as the true vapor pressure is 8.3 psia or less, the concentration of benzene is 5.5 weight % or less, and the toxic risk from the tank does not increase. (Basis: toxics risk screen)
3. The Permit Holder shall maintain records of the storage tank throughput in order to confirm compliance with part 1 above. These records may be in the form of computer generated reports that are available to District personnel on short notice (rather than actual paper copies of throughput data). (Basis: Cumulative Increase)
4. To demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made.
 - A. The material stored
 - B. The true vapor pressure of the material
 - C. The benzene weight percent
 - D. The monthly throughput

(Basis: Cumulative Increase and toxics risk screen)

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5. Deleted.
6. S-1635 shall be controlled by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well	Solid, or Slotted with controls per API 2517 Addendum (See Note 1 below)
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Adjustable, with vapor seal boot
Rim vent	Weighted mechanical actuation, gasketed

Note 1: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- a. Sliding cover;
 - b. Well gasket;
 - c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or non-permeable fabric skirt functioning as a pole sleeve, or District approved equivalent; (Basis: Regulation 8, Rule 5)
7. Chevron shall provide ERCs in the amount of 0.88 tpy of POC for this project to replace their S-1635 storage tank (appl #18516) The credits shall be provided to the District at least 30 days prior to the date of Plant 10's annual permit renewal. (Basis: Emission Offsets) Emission reduction credits were provided on 5/4/99 from Banking Certificate #579.

Condition # 15698 Conditions for A-261, A-262, and S-4393:

Conditions for A-261 and A-262:

P10 A/N 18960

- ~~1. The owner/operator of A 261 and A 262 shall not exceed a washwater temperature of 90 degrees Fahrenheit during any consecutive 3 hour period. The owner/operator of A 261 and A 262 shall not exceed 6.6 pounds per day of organic compound emissions (measured as C1) combined from the vents of both A 261 and A 262. (cumulative increase and Regulation 8, Rule 2, cumulative increase)~~
- ~~2. Each Hydrogen Plant De-Aerator Vent shall not have a vent flow above 5000 pounds per hour during any 3 hour averaging period. (Basis: Regulation 8, Rule 2)~~
- ~~3. Washwater flow in each scrubber (A 261 and A 262) shall not average less than 30 gallons per minute during any 3 hour averaging period. (Basis: Regulation 8, Rule 2)~~

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- ~~4. For each scrubber (A 261 and A 262), the ratio of washwater to De aerator vent flow shall not be less than 11.6 gallon/minute for each 1000 pounds/hour of De aerator vent flow during any 3 hour averaging period. (Basis: Regulation 8, Rule 2)~~
- ~~5. The parametric condition limits above shall not apply during the 72 hour periods preceding and following any Hydrogen Plant shutdown. (Basis: Regulation 2-1-403)~~
- ~~6. These parametric limits may be adjusted administratively, if District approved data demonstrate to the satisfaction of the APCO that alternative parametric conditions are necessary for or capable of maintaining compliance with the emission limits of Regulation 8, Rule 2 as determined by the designated method, or by a District approved equivalent. (Basis: Regulation 8, Rule 2)~~
- ~~7. The owner/operator of A 261 and/or A 262, water scrubbers, shall abate the emissions from the Hydrogen Plant De Aerator vents, whenever they are emitting methanol. One scrubber may be used to abate the De Aerator vents from both the Hydrogen Plant Trains unless the temperature of the washwater exceeds 80 degrees Fahrenheit, during which time both scrubbers shall be used unless only one train is in operation, in which case one scrubber shall be required. (Basis: Regulation 8, Rule 2, cumulative increase)~~
- ~~8. To determine compliance with Regulation 8-2-301 and part 1, the owner/operator of A 261 and A 262 shall conduct district approved source test on each scrubber vent annually in the month of September. The test method shall be the test method specified in Regulation 8, Rule 2, or a District approved equivalent.~~

~~Compliance with the 15 lb/day organics emission limit of Regulation 8-2-301 shall be determined based on the sum of the average source tested emission rate from the scrubber vent plus the District approved calculated scrubber drain emission rate of 8.3 lb/day organics (as carbon) or an alternate District approved scrubber drain emission rate that is less than 8.3 lb/day organics (as carbon). (basis: Regulation 8, Rule 2)~~

~~The Permit Holder shall notify the Manager of the District's Source Test Section at least seven days prior to the test, to provide the District staff the option of observing the testing. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and disposition. (Basis: Regulation 2-1-403 and Regulation 8, Rule 2)~~

- ~~9. To demonstrate compliance with the above conditions, Permit Holder shall keep the following records on site and made available for District staff for a period of 5 years from the date on which a record is made. These records may be in the form of computer generated reports which are available to District personnel on short notice (rather than actual paper copies of throughput data). The parametric measurements mentioned above, 3 hour average temperature records, the hours and date of any Hydrogen Plant shutdowns, district approved emissions data and calculations in pounds per day (as C1), and all source test records. (Basis: Regulation 8, Rule 2, cumulative increase, recordkeeping)~~
- ~~10. Chevron shall provide Emission Reduction Credits in the amount of 1.39 tons per year of Precursor Organic Compounds for this project to install their Hydrogen Plant De Aerator Vents (Permit Application Number 18529). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual plant permit renewal. (Basis: Emission Offsets)~~

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Conditions for S-4393

1. Upon receipt of a violation notice of Regulation 1-301, Standard for Public Nuisance, or Regulation 7, Odorous Substances, resulting from operation of S-4393, Bioreactor, the Air Pollution Control Officer may require the Permit Holder to:
 - A. Make a concerted effort to identify and correct the cause of the violation in as prompt a manner as possible.
 - B. Add deodorant to reduce the nuisance or odors from S-4393.
 - C. Optimize the bioreactor aeration flowrate to minimize the nuisance or odors from S-4393.

(Basis: Regulations 1-301, 7-301, 7-302, 7-303)

~~Condition #16679 For S 4170:~~

~~Conditions for A 260 Selective Catalytic Reduction (SCR) System for abatement of: S 4170 F 305 Furnace, 820 MMBtu/hour, at Hydrogen Plant A Train:~~

- ~~1. Ammonia emissions from Source 4170, Hydrogen Reforming A Train Furnace F-305, shall not exceed 120 pounds per Hour (Basis: toxic risk screen).~~
- ~~2. To ensure compliance with Part 1, a flow restriction orifice shall be installed in the ammonia injection system to limit ammonia flow to below 120 pounds per hour. (basis: toxic risk screen)~~
- ~~3. A 260, SCR System, shall be properly operated and properly maintained and shall abate the emissions from Source 4170, whenever Source 4170 is emitting NOx. (Basis: Regulation 9, Rule 10)~~
- ~~4. Chevron shall install, calibrate, maintain, and operate a District approved continuous emission monitor and recorder for NOx and O2 from the stack of Source 4170, Furnace F 305. (Basis: Regulation 2, Rule 1, Section 403)~~
- ~~5. Start up and shutdown of Source S 4170 shall be limited to a maximum of 20 hours under normal conditions. Upon approval by the District, the start up or shutdown period may be extended to a period no to exceed 72 hours for the following situations:
 - ~~A. The start up or shutdown has been proceeding continuously, and Chevron has been increasing or decreasing temperatures at a rate limited by metallurgy or other physical constraints prescribed in their start up/shutdown procedure.~~
 - ~~B. Start up following installation or replacement of refractory lining.~~
 - ~~C. Start up following initial catalyst pre sulfiding following catalyst replacement or catalyst regeneration.~~(Basis: Regulation 2, Rule 1, Section 403)~~
- ~~6. To demonstrate compliance with the above conditions, the owner/operator shall keep the following records on site and made available for District inspection for a period of 5 years from the date on which a record is made.
 - ~~(a.) All source test records~~
 - ~~(b.) The date, time, and duration of any start up, shutdown or malfunction in the operation of A-260, SCR System. (Basis: Regulation 9, Rule 10, Section 504)~~~~

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Condition# 16686

Chevron Richmond Refinery (Plant #10)

Condition Added 09/02/99

Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in the units of million BTU per day (MMBTU/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

Source	Furnace #/ Source Description	Enforceable Limit, MMBTU/day	Used for Fees, MMBTU/hr
4044	F-570 #5 Rheniformer	1872	78
4070	F-1100A #4 Crude Unit	9552	398
4071	F-1100B #4 Crude Unit	9720	405
4072	F-1160 #4 Crude Unit	8064	336
4131	Blr #3 800# Steam Boiler	5664	236
4132	Blr #4 800# Steam Boiler	5640	235
4133	Blr #5 800# Steam Boiler	5688	237
4152	F-100 Asphalt Soln. Htr.	1212	50.5
4154	F-120 Asphalt Soln. Htr.	1212	50.5
4159	F-410 TKC Feed Furnace	1632	68
4160	F-420 TKC Feed Furnace	1704	71
4161	F-510 TKN Feed Furnace	1464	61
4162	F-520 TKN Feed Furnace	1464	61
4163	F-530 TKN Feed Furnace	1464	61
4168	F-730 Isomax Furnace	7944	331
4170	F-305 Reform Furn. H2 plt.	19680	820
4171	F-355 Reform Furn. H2 plt.	19680	820
4334	F-1200 LNC Atmos Furnace	607.2	25.3
4335	F-1250 LNC Vacuum Furnace	595.2	24.8
4338	F-1550 HNC Vacuum Furnace	864	36
4339	F-1110 LNC Reactor Furnace	456	19

[\(Basis: Regulation 2-1-234\)](#)

Condition # 17470 For S – 3126:

- Total crude oil throughput at S-3126 shall not exceed 50,000 barrels in any consecutive 12-month period. This condition applies when desalter effluent is stored in S-3126 and shall be determined by tank roof movement measured by a tank level gauging system. (basis: cumulative increase)
- Total naphtha throughput at S-3126 shall not exceed 365,000 barrels in any consecutive 12-month period. This throughput shall be determined by tank roof movement measured by a tank level gauging system. (basis: cumulative increase)
- The owner/operator of S-3126 shall maintain a district approved monthly log of all material throughput at S-3126. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (basis: cumulative increase)

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Condition #17527 For S – 4426 ~~and to~~ S-4428:

1. S-4426, ~~S-4427~~, and S-4428 shall only use solvents with a high initial boiling point (>248F). (basis: Regulation 8, Rule 16, Section 118)
2. Each S-4426, ~~S-4427~~, and S-4428 shall each not exceed 100 gallons of solvent in any consecutive 12 month period. (basis: cumulative increase)
3. The owner/operator of S-4426, ~~S-4427~~, and S-4428 shall maintain a district approved monthly log of all solvent usage at S-4426, ~~S-4427~~, and S-4428. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (basis: cumulative increase)

Condition # 17553 For S – 3220:

1. Total throughput at S-3220 shall not exceed 12,466,000 barrels in any consecutive 12 month period. (basis: cumulative increase)
2. This throughput shall be determined by tank roof movement measured by a district approved tank level gauging system. (basis: cumulative increase)
3. The owner/operator of S-3220 shall maintain a district approved monthly log of all material throughput at S-3220. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (basis: cumulative increase)

Condition #18137

For all sources without explicit throughput limiting conditions:

- *1. For grandfathered sources, the throughput limits as shown in Table II-A3 are based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Basis: Reg. 2-1-234.3)
- *2. To demonstrate compliance with the above conditions, the Owner/Operator shall maintain monthly records on site, and make available for District inspectors, for a period of 5 years from the date of entry. (Basis: Section 2-1-234.3)

COND# 18337

1. The S-4354 Butamer Plant throughput shall not exceed 12,000 barrels per operating day. (basis: cumulative increase)
2. deleted per application 15914/5.
3. All fugitive components associated with sources S-4354 and S-4360 shall comply with 40 CFR Part 60 Subpart VV. (basis: NSPS)
4. The owner/operator of S-4354 shall maintain a district approved daily log for S-4354 and monthly summary for S-4354 of all throughput at S-4354. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (basis: record keeping)

VI. Permit Conditions

Condition # 18655

Chevron Products Company; Plant #A0010; Conditions for S-4227, S-4228, and S-4229:

1. Permit Holder shall conduct an annual source test to demonstrate compliance with District regulation 9-1-313.2. (basis: Regulation 2-1-403)
2. Owner/Operator shall conduct an annual SO₃/H₂SO₄ source test to demonstrate compliance with Regulation 6-1--330. (basis: Regulation 2-6-503)

Condition# 18656 For Sources S-6010, S-6012, S-6013, S-6015, ~~6017~~, S-6019, S-6039:

Conditions for monitoring for correctly designed and operating flares:

1. The owner/operator shall not flare more than the following limits of vent gas combined with supplemental natural gas, as defined in Regulation 12-11-210, at the following sources:

S-6012 395,730 #/hr

S-6013 832,201 #/hr

S-6015 888,893 #/hr

S-6039 727,623 #/hr

S-6016 1,455,488 #/hr

S-6019 797,988 #/hr

S-6010 886,674 #/hr.

(basis: Regulations 8-1-110.3; 2-1-403)

2. In order to demonstrate compliance with Part 1 of this condition, the owner/operator shall record on an hourly basis the pounds of vent gas flared at each S-6010, 6012, 6013, 6015, 6016, 6019, and 6039 Flares. The owner/operator shall maintain these records for a period of five years from the date of entry and make sure records are available for the APCO upon request. (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)

3. The owner/operator shall use only natural gas as a supplemental gas necessary to comply with the minimum Net Heating Value at combustion zone (NHVcz) of 270 Btu/scf. (Basis: NESHAP 40 CFR 63.670(e) - effective January 30, 2019 or the date of the APCO's approval of the facility's time extension request per 40 CFR 63.6(i)(6) if granted)

4. The owner/operator shall comply with all applicable requirements in 40 CFR 63.670 to ensure all of the above flares operate in a manner that ensures each flare achieves a hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis. (Basis: NESHAP 40 CFR 63.670, Regulation 2-1-403)

5. The owner/operator shall limit the use of natural gas as supplement gas to the following limits.

S-6012 0.336 MMscf/hr and 4.032 MMscf/year

S-6013 0.336 MMscf/hr and 4.032 MMscf/year

S-6015 0.228 MMscf/hr and 2.736 MMscf/year

S-6039 0.394 MMscf/hr and 4.728 MMscf/year

S-6016 0.336 MMscf/hr and 4.032 MMscf/year

S-6019 0.336 MMscf/hr and 4.032 MMscf/year

S-6010 0.178 MMscf/hr and 2.136 MMscf/year

(Basis: Regulations 2-1-320, 2-1-403)

VI. Permit Conditions

6. To demonstrate compliance with part 5 of this permit condition, the owner/operator shall install a dedicated gas flow rate monitor for each flare to measure the natural gas usage. (Basis: Regulation 2-1-403)

7. Where applicable, the owner/operator shall update and maintain the Flare Minimization Plan (FMP) as required by Regulation 12-12-404. (Basis: Regulation 12, Rule 12)

8. The owner/operator shall install and operate a continuous parametric monitoring system (CPMS) along with a CPMS monitoring plan as required by and consistent with 40 CFR 63.671(b). (Basis: NESHAP 40 CFR 63.671, Regulation 1-523)

9. The owner/operator shall maintain all records and reports required by this permit condition in a District-approved log. The following records shall be kept on site and shall be made available for District inspection for a period of at least 5 years from the date on which a record is made. (Basis: Cumulative Increase, NESHAP 40 CFR 63.670(e), Regulation 2-1-403)

a. Total daily flow of natural gas as supplemental gas and vent gas to the flare, summarized on a consecutive 12-month period basis.

b. Daily net heating value of the flare vent gas (NHV_{vg}) and calculation of net heating value in the combustion zone (NHV_{cz}).

c. Daily flare steam to vent gas ratio.

Conditions for monitoring smoking flares:

10. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 11 of this condition.

(basis: Regulation 2-6-409.2)

11. The owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.

a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.

b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:

i. EPA Reference Method 9; or

ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.

c. If a visible emission is observed, the owner/operator shall continue to monitor the flare either by video monitoring or through outdoor visual inspection for at least 3 minutes, or until there are no visible emissions, whichever is shorter.

d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 12. After a violation is documented, no further inspections are required until the beginning of a new calendar day.

(basis: Regulation 6-1-301, 2-1-403)

12. The owner/operator shall comply with one of the following requirements if visual inspection is used:

VI. Permit Conditions

a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.

b. If the procedure of 11.b.ii is used, the owner/operator shall notify the District for each flaring event that has

visible emissions for three consecutive minutes.

(basis: Regulation 2-1-403)

13. The owner/operator shall keep records of all flaring events, as defined in Part 10. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 11 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 11 of this condition) or Regulation 6-1-301 occurred (using EPA Method 9).

(basis: Regulation 2-6-501; 2-6-409.2)

Conditions for ensuring flare is only used for upset gases (to be exempt from NSPS SO2 limitation and monitoring)

14. The owner/operator shall operate S-6039 and S-6015 Flares to burn only process upset gases as defined by 40 CFR 60.101(e) or fuel gas as defined by 40 CFR 60.101(d) that is released to it as a result of relief valve leakage or malfunctions as defined in 40 CFR 60.2.

(basis: 40 CFR 60.104(a)(1); Regulation 2-1-403)

~~Conditions for monitoring for correctly designed and operating flares: Effective 1/1/05.~~

~~1. The owner/operator shall not flare more than the following limits of vent gas, as defined in Regulation 12-11-210, at the following sources:~~

~~— S 6012 381,040 #/hr~~

~~— S 6013 817,512 #/hr~~

~~— S 6015 878,900 #/hr~~

~~— S 6017 3497 #/hr~~

~~— S 6039 710,390 #/hr~~

~~— S 6016 1,440,800 #/hr~~

~~— S 6019 783,300 #/hr~~

~~— S 6010 878,900 #/hr. (basis: Regulation 8-1-110.3; 2-1-403)~~

~~2. In order to demonstrate compliance with Part 1 of this condition, the owner/operator shall record on an hourly basis the pounds of vent gas flared at each S 6010, 6012, 6013, 6015, 6016, 6017, 6019, and 6039 Flares. The owner/operator shall maintain these records for a period of five years from the date of entry and make sure records are available for the APCO upon request. (basis: Regulation 8-1-110.3; 2-6-409.2; 2-6-501)~~

~~Conditions for monitoring smoking flares::~~

~~3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (basis: Regulation 2-6-409.2)~~

~~4. The owner/operator shall use the following procedure for the initial inspection and each 30 minute inspection of a flaring event.~~

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- ~~A. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.~~
- ~~B. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
 - ~~i. EPA Reference Method 9; or~~
 - ~~ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.~~~~

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~~C. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.~~

~~D. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (basis: Regulation 6-301, 2-1-403)~~

~~5. The owner/operator shall comply with one of the following requirements if visual inspection is used: If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-301 when operating the flare. If the procedure of 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes. (basis: Regulation 2-6-403)~~

~~6. The owner/operator shall keep records of all flaring events, as defined in Part 3. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)~~

~~Conditions for ensuring flare is only used for upset gases (to be exempt from NSPS SO₂ limitation and monitoring)~~

~~7. The owner/operator shall operate S-6015 and S-6039 Flares to burn only process upset gases as defined by 60.101(e) or fuel gas as defined by 60.101(d) that is released to it as a result of relief valve leakage or other emergency malfunctions. (basis: 60.104(a)(1); Regulation 2-1-403)~~

Condition 18680 for source S-9304

1. The Phil Tite EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-101. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.

2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overflow prevention devices ("flapper valves"), a Drop Tube Overflow Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36-month period. Measured leak rates of each component shall not exceed the levels specified in VR-101.

-The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).

Condition #18702 For Source S-3225:

~~4.~~

~~1. Total throughput at S-3225 shall not exceed 10,832,000 barrels in any consecutive 12-month period.
(Basis: BACT)~~

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2. Total benzene concentration at S-3225 shall not exceed 4% by weight. A sample shall be taken to determine the benzene concentration whenever the tank stores either gasoline or aviation fuel. (Basis: Toxics)
3. The owner/operator of S-3225 shall maintain a district approved monthly log of all material throughput at S-3225 and the benzene concentration of gasoline and aviation fuel. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (Basis: Cumulative Increase and Toxics)
4. The owner/operator shall control organic emissions from S-3225 by installing a dome, and a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal that meet the design criteria in Regulation 8, Rule 5. There shall be no ungasketed roof penetrations. Each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to prior District approval, prior to installing the roof on the tank. (Basis: Regulation 2-1-233)

<u>Fitting Type</u>	<u>Control Technique</u>
<u>Access hatch</u>	<u>Bolted cover, gasketed</u>
<u>Guide pole/Well</u>	<u>Slotted with a pole sleeve that projects below liquid surface a zero-gap pole wiper and an exterior flexible barrier/cover that covers all of the slots</u>
<u>Gauge float well</u>	<u>Bolted cover, gasketed</u>
<u>Gauge hatch/Sample well</u>	<u>Weighted mechanical actuation, gasketed</u>
<u>Vacuum breaker</u>	<u>Weighted mechanical actuation, gasketed</u>
<u>Roof drain</u>	<u>none</u>
<u>Roof leg</u>	<u>Adjustable, fitted with vapor seal boots</u>
<u>Rim vent</u>	<u>Weighted mechanical actuation, gasketed</u>

(Basis: Regulation 2-1-233)

~~Total throughput at S 3225 shall not exceed 10,832,000 barrels in any consecutive 12 month period. (BACT)~~

- ~~2. Total benzene concentration at S 3225 shall not exceed 4% by weight. A sample shall be taken to determine the benzene concentration whenever the tank stores either gasoline or aviation fuel. (toxics)~~
- ~~3. The owner/operator of S 3225 shall maintain a district approved monthly log of all material throughput at S 3225 and the benzene concentration of gasoline and aviation fuel. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (cumulative increase and toxics)~~

Condition #18945 For Sources S-4345, S-4429, S-4433, S-4434, and S-4435:

1. The owner/operator of S-4433 shall not exceed 1.1 MM scfd total H2S produced in any calendar day and 0.92 MM scfd averaged over any consecutive 12 month period. (basis: cumulative increase)
2. The owner/operator of S-4434 shall not exceed 4.97 MM scfd total H2S produced in any calendar day and

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- 4.45 MM scfd averaged over any consecutive 12 month period. (~~basis: cumulative increase~~)
3. The owner/operator of S-4435 shall not exceed 8.57 MM scfd total H2S produced in any calendar day and 8.57 MM scfd averaged over any consecutive 12 month period. (~~basis: cumulative increase~~)
4. The owner/operator of S-4429 shall not exceed 2.5 MM scfd total H2S produced in any calendar day and 2.33 MM scfd averaged over any consecutive 12 month period. (~~basis: cumulative increase~~)
5. The owner/operator of S-4345 shall not exceed 195 gpm total feedrate based on a one hour averaging time. (~~basis: cumulative increase~~)
6. The owner/operator of S-4345 shall not exceed 1.81 MM scfd total H2S produced in any calendar day. (~~basis: cumulative increase~~)
7. The owner/operator of S-4429, S-4433, S-4434, S-4435, and S-4345 shall maintain a district approved daily log of all H2S production and feedrates at S-4429, S-4433, S-4434, S-4435, and S-4345 in order to demonstrate compliance with conditions #1 through 6. This log shall be kept on site for 5 years from the date of entry and be made available to district staff upon request. (~~basis: record keeping~~)

Condition #19063 For Sources S-4227, S-4228, and S-4229:

1. The total sulfur produced at S-4227 shall not exceed 189.6 long tons in any calendar day and 150 long tons averaged over any consecutive 12 month period. Applicable requirements, throughput limits and/or mass emission limits and/or concentration limits in permit condition 24136 will supersede this permit condition after S-4227 is modified. (~~Basis: Cumulative Increase~~)
2. The total sulfur produced at S-4228 shall not exceed 179.0 long tons in any calendar day and 150 long tons averaged over any consecutive 12 month period. Applicable requirements, throughput limits and/or mass emission limits and/or concentration limits in permit condition 24136 will supersede this permit condition after S-4228 is modified. (~~Basis: Cumulative Increase~~)
3. The total sulfur produced at S-4229 shall not exceed 336 long tons in any calendar day and 292.7 long tons averaged over any consecutive 12 month period. Applicable requirements, throughput limits and/or mass emission limits and/or concentration limits in permit condition 24136 will supersede this permit condition after S-4229 is modified. (~~Basis: Cumulative Increase~~)
- 4a. H2S emissions from each of the tail gas units A-20, A-21, and A-22 shall each not exceed 10 ppmv. Applicable requirements, throughput limits and/or mass emission limits and/or concentration limits in permit condition 24136 will supersede this permit condition after S-4227, S-4228, and/or S-4228 are modified. (~~Basis: CEQA/BACT~~)
- 4b. The owner/operator of each tail gas units A- 20, A-21 and A-22 shall not exceed 250 ppmv SO₂, corrected to 0% O₂ on a 12-hour basis except during periods of startup, shutdown or malfunction of the SRP or SRU, or during malfunction of the TGU. The sulfur Recovery Plants shall be affected facilities under Subpart J and shall comply with all applicable provisions of Subparts A and J. (~~Basis: NSPS Subpart J, Consent Decree case No. 03-04650, 6/27/05~~)
5. The owner/operator of S-4227, S-4228, and S-4229 shall maintain a district approved daily log with monthly summaries of all sulfur production at each S-4227, S-4228, and S-4229 in order to demonstrate compliance with parts 1 through 4. This log shall be kept on site for 5 years from the date of entry and be made available to district staff upon request. Recordkeeping requirements in permit condition 24136 will supersede this permit condition after S-4227, S-4228, and/or S-4229 are modified. (~~Basis: cumulative increase~~)
6. This log shall be kept on site for 5 years from the date of entry and be made available to district staff upon request. (~~cumulative increase~~)

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Condition #19425 For Source S-990:

1. Total throughput at S-990 shall not exceed 5,801,400 barrels in any consecutive 2 month period. (Basis: BACT)
2. The consecutive 12 month average vapor pressure of all materials stored in S-990 shall not exceed 8.33 psia. (Basis: BACT)
3. S-990 shall have no ungasketed roof penetrations, no slotted guide pole unless equipped with float and wiper seals or equivalent, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. (Basis: BACT)
4. The owner/operator of S-990 shall maintain a district approved monthly log of all material /throughput and material vapor pressure at S-990. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (Basis: BACT)

~~Condition# 20225 S-7501~~

- ~~1. Hours of Operation: The owner/operator shall operate S-7501 only to mitigate emergency conditions or for reliability related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability related activities is limited to 100 hours per any calendar year. [Basis: Regulation 9-8-330]~~
~~“Emergency Conditions” is defined as any of the following:~~
 - ~~(a.) Loss of regular natural gas supply.~~
 - ~~(b.) Failure of regular electric power supply.~~
 - ~~(c.) Flood mitigation.~~
 - ~~(d.) Sewage overflow mitigation.~~
 - ~~(e.) Fire.~~
 - ~~(f.) Failure of a primary motor, but only for such time as needed to repair or replace the primary motor. [Basis: Regulation 9-8-231]~~~~“Reliability related activities” is defined as any of the following:~~
 - ~~(a.) Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~
 - ~~(b.) Operation of an emergency standby engine during maintenance of a primary motor. [Basis: Regulation 9-8-232]~~
- ~~2. The owner/operator shall equip the emergency standby engine(s) with either:~~
 - ~~(a.) Non-resettable totalizing meter that measures the hours of operation for the engine; or~~
 - ~~(b.) A non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation. [Basis: Regulation 9-8-530]~~
- ~~3. Records: The owner/operator shall maintain the following monthly records in a District approved log for at least 2 years and shall make the log available for District inspection upon request:~~
 - ~~(a.) Hours of operation (total).~~
 - ~~(b.) Hours of operation (emergency).~~
 - ~~(c.) For each emergency, the nature of the emergency condition.~~
 - ~~(d.) Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized. [Basis: Regulations 9-8-530 and 1-441]~~

VI. Permit Conditions

~~S-7507, S-7511, S-7512, S-7515, S-7516, S-7517, S-7521, and S-7531~~

~~24. In order to demonstrate compliance with the above condition, the owner/operator of S-7507, S-7511,~~

~~S-7512, S-7515, S-7516, S-7517, S-7521, and S-7531 shall maintain records of hours of operation in a District-approved log. These records shall be kept on site, summarized on a monthly basis, and made available for District inspection for a period of 5 years from the date on which a record is made. (Basis: Recordkeeping Reg 9-8-530)~~

~~35. The owner/operator shall ensure that S-7507, S-7511, S-7512, S-7515, S-7516, S-7517, S-7521, and S-7531 do not emit, for a period or periods aggregating more than three minutes in any hour, a visible emission that is as dark or darker than No. 2 on the Ringelmann Chart, or of such opacity as to obscure an observer's view to an equivalent or greater degree, nor shall said emission, as perceived by an opacity sensing device in good working order, where such device is required by District regulations, be equal to or greater than 40% opacity. (Basis: Reg 6-303)~~

~~}~~

COND# 20330 -

1. The owner/operator shall only operate A-4429 while S-4429 is shut down with the exception of initial testing. (~~basis: cumulative increase~~)
2. The owner/operator shall maintain a minimum fresh aqua-ammonia solution strength of 15% and shall change out the aqua-ammonia solution when its strength reaches 5%. (~~basis: cumulative increase~~)
3. The owner/operator of A-4429 shall check the aqua- ammonia solution strength at least once every 12 hours. (~~basis: cumulative increase~~)
4. The owner/operator of A-4429 shall send the exhaust of A-4429 to the refinery's relief gas system. (~~basis: cumulative increase~~)
5. The owner/operator of A-4429 shall keep a district approved daily log of the measured aqua-ammonia solution strength. This log shall be kept on site for at least 5 years from the date of entry and be made able to district staff upon request. (~~basis: record keeping~~)

VI. Permit Conditions

Condition# 20764 For Refinery:

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulations 8-5-117 & 2-6-409.2)
2. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: Regulation 2-6-409.2)

~~Condition# 20791 A-94 abating S-4094~~

- ~~1. The owner/operator of A-94 shall properly maintain and properly operate A-94 at all times of operation of S-4094. (cum inc)~~
- ~~2. The owner/operator of A-94 shall maintain a minimum operating temperature of 1400F at all times of operation of S-4094. (cum inc)~~
- ~~3. The owner/operator of A-94 shall continuously monitor and record the operating temperature of A-94. (2-6-409.2)~~

~~The owner/operator of A-94 shall maintain a district approved log of all continuous temperature monitoring records. This log shall be retained on site for at least 5 years from the date of entry and be made available to district staff upon request. (2-6-409.2)~~

COND# 20863

Application #07693

1. The owner/operator of S-4405 shall not exceed 100,000 gallons heavy oil throughput in any consecutive 12 month period. (basis: cumulative increase cum inc)
2. The owner/operator of S-4405 shall not exceed 7,000 gallons heavy oil throughput in any consecutive 24 hour period. (basis: cumulative increase cum inc)
3. The owner/operator of S-4405 may handle other petroleum hydrocarbon stocks as long as the true vapor pressure does not exceed 1.13 psia and emissions of toxic compounds do not exceed any respective trigger levels. (basis: cumulative increase cum inc)
4. The owner/operator of S-4405 shall not handle any material with a benzene concentration greater than 3% by weight. The owner/operator of S-4405 shall measure the benzene concentration of the material contained in each tank car, prior to unloading in order to determine compliance with this condition. (basis: toxics)
5. The owner/operator of S-4405 shall not exceed 0.17 pounds of organic compounds per 1000 gallons of organic liquid loaded. (basis: Regulation 8-6-301)

VI. Permit Conditions

6. The owner/operator of S-4405 shall properly maintain and properly operate the A-4405 Vapor Balance System at all times of operation of S- 4405. (~~basis: cumulative increase~~)
7. A/C startup condition deleted. (4/7/4)
8. The owner/operator of S-4405 shall maintain a district approved daily log of all material throughput, benzene concentration, and vapor pressure of all materials handled and all source test data at S-4405. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (~~basis: Regulation~~ 8-6-501)

Condition# 20944 Application #7948

1. The owner/operator of S-4292 shall not exceed 8000 barrels throughput in any calendar day as measured by the reactor feed meter. (~~basis: cumulative increase~~)
2. The owner/operator of S-4292 shall not exceed 2,920,000 barrels throughput in any consecutive 12 month period as measured by the reactor feed meter. (~~basis: cumulative increase~~)
3. The owner/operator of S-4292 shall maintain a district approved daily log of all throughput at S-4292 with monthly summaries. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (~~basis: Regulation~~ 2-6-501)

Application 8161, S-4424

1. The owner/operator of S-4424 shall not exceed 2500 pounds of POC emissions in any consecutive 12 month period. (~~basis: cumulative increase~~)
2. The owner/operator of S-4424 shall not exceed 9.8 pounds POC in any calendar day. (~~basis: cumulative increase~~)
3. The owner/operator of S-4424 shall not exceed any toxic trigger level listed in Table ~~2-1-3162-5-1~~. (~~basis: Regulation~~ ~~2-1-3165~~)
4. The owner/operator of S-4424 shall maintain a district approved daily log of all POC emissions with monthly summaries, monthly toxic compound emissions, and MSDS's of all materials used This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (~~basis: Regulation~~ 2-1-403)

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Condition# 21232 -

Effective 1/1/05

COND# 21232

Regulation 9-10 Refinery-Wide Compliance

Affected [Sources](#)

*1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: ([Basis: Regulation 9-10-301-305 & 305308](#))

S#	Description (Y/N,EF)	CEM	S#	Description (Y/N,EF)	CEM
S-4038	F-3550	Y	S-4158	F-340	N
S-4039	F-3560	Y	S-4159	F-410	Y
S-4040	F-3570	Y	S-4160	F-420	Y
S-4041	F-3580	Y	S-4161	F-510	Y
S-4042	F-550	Y	S-4162	F-520	Y
S-4043	F-560	Y	S-4163	F-530	Y
S-4044	F-570	Y	S-4164	F-630	Y
S-4045	F-580	Y	S-4165	F-620	Y
S-4059	F-247	Y	S-4166	F-610	Y
S-4060	F-210A/B	Y	S-4167	F-710	Y
S-4061	F-410	Y	S-4168	F-730	Y
S-4062	F-447	Y	S-4169	F-731	Y
S-4068	F-1610	NY	S-4170	F-305	Y
S-4069	F-1660	N	S-4171	F-355	Y
S-4070	F-1100A	Y	S-4188	F-651	NY
S-4071	F-1100B	Y	S-4189	F-661	N
S-4072	F-1160	Y	S-4330	F-1610	Y
S-4129	Blr #1	Y	S-4331	F-1310	Y
S-4131	Blr #3	Y	S-4332	F-1360	Y
S-4132	Blr #4	Y	S-4333	F-1750	Y
S-4133	Blr #5	Y	S-4334	F-1200	Y
S-4135	Blr #7	Y	S-4335	F-1250	Y
S-4152	F-100	Y	S-4336	F-1410	Y
S-4154	F-120	N	S-4337	F-1500	Y
S-4155	F-135	Y	S-4338	F-1550	Y
S-4156	F-320	N	S-4339	F-1110	Y
S-4158	F-340	N			

Monitoring Device Installation

*2. The owner/operator of each source listed in Part 1 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. This Part shall be effective September 1, 2004. ([Basis: Regulation 9-10-502](#))

VI. Permit Conditions

NOx Box Overview

- *3. The owner/operator shall operate each source listed in Part 1, which does not have a NOx CEM within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from district-approved source tests. The owner/operator may choose to comply with either 3.B. or 3.C. (~~Basis: Regulation 9-10-502~~~~Reg. 9-10-502~~)
- A. The NOx Box for units with a maximum firing rate of 25 MMBH or more shall be established using the procedures in Part 4.
 - B. The NOx Box for units with a maximum firing rate less than 25MMBH shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O2. OR
 - C. The NOx Box for units with a maximum firing rate less than 25 MMBH shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 30% of the maximum rated capacity. There shall be no maximum or minimum O2.

NOx Box Establishment

- *4. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (~~Basis: Regulation 9-10-502~~~~9-10-502~~)
The procedure for establishing the NOx box is
- a. Conduct district approved source tests for NOx and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;
 - b. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O2 at low-fire may be different than the minimum O2 at high-fire. The same is true for the maximum O2). The owner/operator shall also verify the accuracy of the O2 monitor on an annual basis.
 - c. Determine the highest NOx emission factor (lb/Mmbtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm vd @ 3% O2; the owner/operator may choose to use a higher NOx emission factor than tested.
 - d. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NOx Box, which represents the allowable operating range(s) for the furnace under which the NOx emission factor from part ~~5a-5A~~ is deemed to be valid.
 - e. The NOx Box can represent/utilize either one or two emission factors.
 - f. The NOx Box for each emission factor can be represented either as a 4- or 5-sided polygon The NOx box is the area within the 4- or 5-sided polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5A.

Upon establishment of each NOx Box, the owner/operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

NOx Box Limits

- *5A. Except as provided in part 5B OR 5C & 5D, the owner/ operator shall operate each source within the NOx Box ranges listed below at all times of operation, except for startup, shutdown, or curtailed operation, when the owner/operator may choose to comply with 5B OR 5C. This part shall not apply to any source that has a properly operated and properly installed NOx CEM. (~~Basis: Regulation 9-10-502~~~~9-10-502~~)

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NOx Box ranges

Source No.: S-4154
Emission Factor: 0.035 lb/MMBtu
Firing rate MMBtu/h, HHV: O2%
18.9, 1.5
18.7, 4.6
16.4, 5.7
7.9, 5.9
7.4, 5.2
7.3, 3.7
14, 1.3

~~Source No.: S-4158~~
~~Emission Factor: 0.035 lb/MMBtu~~
~~Firing rate MMBtu/h, HHV: O2%~~
~~29, 1.7~~
~~43.71, 1.73~~
~~45.31, 5.62~~
~~15, 4.6~~
~~17, 3.4~~
~~48.0, 3.28~~

~~Source No.: S-4188~~
~~Emission Factor: 0.25 lb/MMBtu~~
~~Firing rate MMBtu/h, HHV: O2%~~
~~11.9, 3.2~~
~~4.8, 5.4~~
~~7.9, 10.6~~
~~13.73, 10.31~~
~~27, 4.9~~
~~22.3, 4~~

Source No.: S-4189
Emission Factor: 0.25 lb/MMBtu
Firing rate MMBtu/h, HHV: O2%
3 @ 20% or 4.5 @ 30%, 25 (Note 1)
3 @ 20%, 4.5 @ 30%, 0 (Note 1)
15, 0
15, 25

~~Source No.: S-4068~~
~~Emission Factor: 0.14 lb/MMBtu~~
~~Firing rate MMBtu/h, HHV: O2%~~
~~56.79, 3.7~~
~~65, 9.5~~
~~27, 9.5~~
~~23.5, 3.59~~

Source No: S-4069
Emission factor: 0.045 lb/MMBtu
Firing rate MMBtu/h, HHV: O2%
14.10, 2.18
13.86, 8.17

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26.16, 1.85
27.98, 6.52

~~S 4156 is Not in service~~ The limits listed above are based on a calendar day averaging period for both firing rate and O₂%.

Note 1: In accordance with Parts 3.B. or 3.C. of this permit condition, the oxygen limits do not apply to sources with maximum firing rate less than 25 MMBTU/hour. For the purposes of this permit condition, high fire is defined as 100% of the rated heat input, and low fire is defined as 20% (Part 3.B.) or 30% (Part 3.C.) of rated heat input.

5B) Part 5A. does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity) during startup or shutdown periods or periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in [Regulation 9-10-301.4.2](#) (previous 30-day average firing rate). OR

5C) Part 5A does not apply to units in Curtailed Operation (i.e. operation at 30% or less of rated heat input) or to units undergoing startup or shutdown, or to units that are temporarily out of service. For units in curtailed operation or undergoing startup or shutdown, the means for determining compliance with the refinery wide limit shall be accomplished using only one method described in [Regulation 9-10-301.4](#) consistently for all sources (previous 30-day average or actual firing rate). For units temporarily out of service, the means for determining compliance with the refinery wide limit shall be accomplished using the method described in [Regulation 9-10-301.5](#) (previous 30-day average firing rate).

5D) Part 5A. does not apply during any source test required or permitted by this condition. (~~Basis: Regulation 9-10-502~~~~Reg. 9-10-502~~). See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.

NOx Box Deviations

*6. NOx Box Deviations (~~Basis: Regulation 9-10-502~~~~9-10-502~~)

~~+~~ The owner/operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the owner/operator conducts a district approved source test which reasonably replicates the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the district source test manager within 45 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. As necessary, a permit amendment shall be submitted.

~~+~~ a. Source Test <= Emission Factor If the results of this source test do not exceed the higher NOx emission factor in Part 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box."

~~+~~ 1) The facility may submit an accelerated permit program permit application to request an administrative change of the permit condition to adjust the NOx Box operating range(s), based on the new test data.

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~~2-~~ b. Source Test > Emission Factor If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:

~~a-~~ i. Utilizing measured emission concentration or rate, the owner/operator shall perform an assessment, retroactive to the date of the previous source test, of compliance with Section 9-10-301. The unit will be considered to have been in violation of Section 9-10-301 for each day the facility was operated in excess of the refinery wide limit.

~~b-~~ ii. The facility may submit a permit application to request an alteration of the permit condition to change the NOx emission factor and/or limit and/or adjust the operating range, based on the new test data.

~~2)~~ c. Reporting - The owner/operator must report to the APCO conditions outside of box within 96 hours of occurrence.

Periodic Source Testing for Sources w/o NOx CEM

*7. For each source subject to Part 3, the owner/operator shall conduct source tests at the schedule listed below. The source tests are performed in order to measure NOx, CO, and O2 at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the district source test manager within 45 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Reg.9-10-502)

Source Testing Schedule

~~1-~~ a. Heater < 25 MMBtu/hr

One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.

~~2-~~ b. Heaters => 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 45 days of the test. (Reg.9-10-502)

if a source has been shutdown longer than the period allowed between source testing periods (e.g. < 25 MMBtu/hr - > 12 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required semi-annual source test within 30 days of start up of the source.

Source Test Results > NOx Box Emission Factor

If the results of any source test under this part exceed the permitted concentrations or emission rates the owner/operator shall follow the requirements of Part 6.~~b.A2~~ If the owner/operator chooses not to submit an application to revise the emission factor and/or limit, the owner/operator shall conduct another Part 7 source test, at the same conditions, -within 90 days of the initial test.

Periodic Source Testing for Sources w/ NOx CEM

*8. For each source listed in Part 1 without a CO CEM and with a NOx CEM installed, the owner/operator shall conduct semi-annual district approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with

VI. Permit Conditions

District- conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests.

CO Exceedance & CEM Installation

- *9. For any source listed in Part 1 with a maximum firing limit greater than 25 MMBtu/h for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O₂, owner/operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O₂. The owner/operator shall install the CEM within the time period allowed in the District's Manual of Procedures. (Reg.9-10-502, 1-522)

Recordkeeping

- *10. In addition to records required by 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts ~~number 46, 7,~~ and ~~58~~. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. (record keeping & 9-10-504)

NOx Box Policy

Rev. 2, Updated 9/30/03

Regulation 9-10 Alternate NOx Compliance Plan

*11. The Owner/Operator shall calculate and totalize NOx emissions from all sources listed in part 1 which are subject to the refinery-wide NOx emission rate limit in Regulation 9-10 on a calendar day basis. The procedure to be used for this purpose shall be the summation of daily emissions in Alternative NOx Compliance Plan for Regulation 9-10-308 compliance. The initial limit shall be 3,699 pounds of NOx per day and shall include all sources. The interim limit shall be either 3,437 pounds of NOx per day (with S-4170 shutdown) or 3,414 pounds of NOx per day (with S-4171 shutdown). The final limit shall be 3,116 pounds of NOx per day (with S-4170, S-4171, and S-4158 shutdown). The Owner/Operator shall retain all emission calculations for a period of at least five years from the last date of entry and make them available to District staff upon request. (Basis: Offsets, Reg.9-10-308)

*12. The owner/operator of each source listed in Part 1 shall determine compliance with Part 11 as follows: (Basis: Regulation 9-10-308)

a. Calculate NOx emissions using measured fuel gas rates, and either:

i. NOx CEM data, or

ii. NOx emission factor from Part 5A for S-4069, S-4154, ~~S-4158~~, and S-4189.

b. The daily mass NOx emission rate shall be determined by summing total emissions from sources listed in Part 1 above. Any units removed from service do not need to be included in the total emissions.

*13. The applicant shall submit quarterly reports of their ANCP activity no later than 30 days after the close of each calendar quarter. (Basis: Regulation 9-10-505.2)

Condition# 21237

- *1. Until a throughput limit is established, the owner/operator of ~~S-1514~~, S-3072, and S-3101 shall notify the district in writing of any proposed increases in piping and/or pumping associated with ~~S-1514~~, S-3072, and/or S-3101. This notification shall also apply to any new materials to be handled by ~~S-1514~~, S-3072, and/or S-3101. This notification shall occur at least 30 days prior to any of the above-mentioned work being performed. (Basis: Regulation 2-1-234)

VI. Permit Conditions

COND# 21815

1. The owner/operator of S-4159 and S-4160 shall properly install and operate in-stack NOx and O2 CEMs in order to demonstrate compliance with Regulation 9-10 and Condition #21232. The installation shall occur in accordance with the timetable outlined in the District Manual of Procedures (MOP) Volume V. The owner/operator's receipt of the Authority to Construct shall serve as the district notification that these CEMs are required, which initiates the installation schedule in the District MOP Volume V. ([Basis: Regulation 9-10](#))

~~COND# 21307~~

~~Plant 10, Application #8451 For S-1645 at Plant 10:~~

- ~~1. The owner/operator of S-1645 shall not exceed 520,000 barrels of material throughput during any consecutive twelve month period. (cum inc)~~
- ~~2. The owner/operator of S-1645 shall only store materials with a vapor pressure that shall not exceed 5.8 psia. The concentration of benzene in materials stored shall not exceed 2.0 wt.%. (cum inc/Toxics)~~
- ~~3. The owner/operator of S-1645 shall maintain a district approved monthly log of all storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all inspection records. These records shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request. (2-1-403)~~

COND# 22262

Plant 10, sources 4350, 4352, 4227-9

1. The owner/operator of S-4350 and S-4352 shall conduct a visible emissions inspection after every 1 million gallons of diesel combusted, to be counted cumulatively over a five year period. If a visible emissions are detected, the owner/operator of S-4350 and S-4352 shall complete a method 9 evaluation within the 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel fuel within the 3 working day time frame. ([basis: Regulation 6-1-301](#))
2. The owner/operator of S-4227, S-4228, and S-4229 shall monitor and record on a monthly basis the visible emissions from S-4227, S-4228, and S-4229 to demonstrate compliance with Regulation 6-1-301. These records shall be kept for a period of at least 5 years from the date of entry and shall be made available to district staff upon request. ([basis: Regulation 6-1-301](#))

COND# 22266 -

Plant 10, App 11503, S-7601

1. ~~The owner/operator of S-7601 shall not exceed 30 gallons of ink usage in any consecutive 12 month period. ([basis: cumulative increase](#))~~
2. ~~The owner/operator of S-7601 shall not exceed 36 gallons of cleanup solvent in any consecutive 12 month period. ([basis: cumulative increasecum inc](#))~~
3. ~~The owner/operator of S-7601 shall maintain a district approved monthly log of all ink and solvent usage at S-7601. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. ([basis: Regulation 8-4-501](#))~~

~~COND# 22569~~

~~PERMIT CONDITIONS~~

~~S-7013 SRU Stationary Standby Generator Set: Diesel Engine;
Make: Cummins; Model: QSX15-G9; Rated Horsepower:750 HP~~

VI. Permit Conditions

- ~~1. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits does not have an annual hourly limit. Operating for reliability related activities is limited to 50 hours per year per emergency standby engine.~~

~~(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3))~~

- ~~2. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed and properly maintained.~~

~~(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1))~~

- ~~3. Records: The owner/operator shall maintain the following monthly records in a District approved log for at least 36 months from the date of entry. For Title V facilities, the following monthly records shall be maintained for 5 years. Log entries shall be retained on site, either at a central location or at the engine's locations, and made immediately available to the District staff upon request.~~
- ~~a. Hours of operation for reliability related activities (maintenance and testing).~~
 - ~~b. Hours of operation for emission testing to show compliance with emission limits.~~
 - ~~c. Hours of operation (emergency).~~
 - ~~d. For each emergency, the nature of the emergency condition.~~
 - ~~e. Fuel usage for engine(s).~~

~~(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Regulation 1-441)~~

- ~~4. The owner or operator shall not operate each stationary emergency standby diesel fueled engine for non-emergency use, including maintenance and testing, during the following periods:~~
- ~~a. Whenever there is a school sponsored activity (if the engine is located on school grounds)~~
 - ~~b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session (if the engine is located within 500 feet of school grounds).~~

~~(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1))~~

VI. Permit Conditions

COND# 22641

Plant 10, Application 10729, S-1296, S-1514, S-4226

1. The owner/operator of S-1296 shall not exceed 3,495,000 barrels of material throughput during any consecutive 12 month period. ([basis: cumulative increase](#))
2. The owner/operator of S-1296 shall only store materials with a vapor pressure that shall not exceed 4.1 psia. The concentration of benzene in materials stored at S-1296 shall not exceed 2.75% by weight. ([basis: toxics, Regulation 2-5](#))
3. The owner/operator of S-1514 shall not exceed 3,000,000 barrels of material throughput during any consecutive 12 month period. ([basis: cumulative increase](#))
4. The owner/operator of S-1514 shall only store materials with a vapor pressure that shall not exceed 9.8 psia. The concentration of benzene in materials stored at S-1514 shall not exceed 2.75% by weight. ([basis: toxics, Regulation 2-5](#))
5. The owner/operator of S-4226 shall not exceed 64,800 barrels of material throughput during any calendar day. ([basis: cumulative increase](#))
6. The owner/operator of S-4226 shall only divert feed from S-4235 during periods when S-4235 is shut down. At no time shall the feed from S-4226 be diverted to S-4235. The throughput during the shut down of S-4235 shall not exceed the lower throughput limit of either S-4235 or S- 4226. ([basis: cumulative increase](#))
7. The owner/operator of S-1296 and S-1514 shall maintain a district approved monthly log of all storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all inspection records. The owner/operator of S-4226 shall maintain a district approved daily log of all material throughput. These records shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. ([basis: Regulation 2-1- 403](#))

COND# 22820

[Applies to S-7501, S-7507, S-7508, S-7509, S-7511, S-7512, S-7515, S-7516, S-7517, S-7521, and S-7531](#)

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM" section 93115,title 17, CA Code of Regulations, subsection93115.6 (b)(3)(A)(1)(a)]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(3)(A)(1)(a)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (e)(1)]

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4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.10 (g) (or, Regulation 2-6-501)]

5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:
 - a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
 - b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6 (b)(2)]

COND# 22850

S-3235 Application 26168

Plant 10 S-7534 S-7535, S-7536 application #'s 17175/6 and 16590/1

S-7539 application 19075/4-

S-7538 application 18091/2

S-7541 and S-7542 Application 24892

S-7543 Application 25410

[S-7013 Application 12975 \(duplicative requirements; supersedes permit condition #22569\)](#)

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(3) or (e)(2)(B)(3)]

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3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
- Hours of operation for reliability-related activities (maintenance and testing).
 - Hours of operation for emission testing to show compliance with emission limits.
 - Hours of operation (emergency).
 - For each emergency, the nature of the emergency condition.
 - Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)]

5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:
- Whenever there is a school sponsored activity (if the engine is located on school grounds)
 - Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1) or (e)(2)(B)(2)]

VI. Permit Conditions

COND# 22923

Application 13012/13610, P10

1. The owner/operator shall consider the sources listed below as affected facilities under NSPS Subpart J, for fuel gas combustion devices.(Consent Decree case No. 03-04650, 6/27/05)

~~S 4032 F 101, FCC GHT #3 Cat Furnace~~

~~S 4033 F 102, Penhex Isom #3 Cat Furnace~~

S-4039 F-3560, #4 Cat Furnace

S-4040 F-3570, #4 Cat Furnace

S-4041 F-3580, #4 Cat Furnace

S-4043 F-560, #5 Cat Furnace

S-4044 F-570, #5 Cat Furnace

S-4045 F-580, #5 Cat Furnace

~~S 4046 F 1 HO Heater Asphalt Plant~~

S-4060 F-210A & B, Furnace JHT MDH, LSFO-W

S-4061 F-410, NHT Furnace

S-4069 F1670, Aromatic Saturator, LSFO-E

S-4072 F-1160, 4 Crude, LSFO-E

S-4129 800 lb Steam Boiler No.1

S-4131 800 lb Steam Boiler No.3

S-4132 800 lb Steam Boiler No.4

S-4133 800 lb Steam Boiler No.5

S-4135 800 lb Steam Boiler No.7

S-4153 F-110, Asphalt Solution Heater, SDA, Isomax

S-4154 F-120, Asphalt Solution Heater, SDA, Isomax

~~S 4156 F 320, Naphtha Vaporizer, H2 Plant, Isomax~~

~~S 4157 F 330, Naphtha Vaporizer, H2 Plant, Isomax~~

~~S 4158 F 340, Natural Gas Heater, H2 Plant, Isomax~~

S-4162 F-520, TKN Feed Furnace, Isomax

S-4163 F-530, TKN Feed Furnace, Isomax

S-4164 F-630, Isocracker Feed Furnace, Isomax

S-4165 F-620, Isocracker Feed Furnace, Isomax

S-4166 F-610, Isocracker Feed Furnace, Isomax

S-4167 F-710, TKC Fractionator, Isomax

S-4330 F-1610, HNHF Reactor RLOP 16 Plant

S-4331 F-1310, LNHF Reactor RLOP

S-4333 F-1750, TKC Vacuum Furnace

S-4335 F-1250, Furnace LNC Vacuum RLOP 12 Plant

S-4336 F-1410, HNC Reactor RLOP

S-4337 F-1500, HNC Atmospheric RLOP

S-4339 F-1110, LNC Reactor RLOP

~~S 4349 F 1650, Furnace HNC Distillation Section RLOP (BO 2000)~~

S-4351 Heat Recovery Steam Generator for Cogen Gas Turbine

S-4353 Heat Recovery Steam Generator for Cogen Gas Turbine

VI. Permit Conditions

Condition 22951 for source S-9304

Permit Conditions for Healy EVR Phase II System w/o ISD per CARB E.O. VR-201

- 1) The Healy EVR Phase II Vapor Recovery System without ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order VR-201. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.
- 2) The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made. Monthly throughput of gasoline pumped, summarized on an annual basis. All scheduled maintenance activities required under E.O. VR-201, Exhibit 2, Figure 2B-11
- 3) All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight as defined in District Manual of Procedures, Volume IV, ST-30.
- 4) The Healy EVR Phase II system shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order VR-201. The owner or operator shall conduct and pass the following tests at least once in each 12-month period following successful completion of start-up testing. Tests shall be conducted using the referenced test methods:
 - a) Vapor-to-Liquid Test in accordance with E.O. VR-201, Exhibit 5. The vapor-to-liquid ratio shall be between 0.95 and 1.15 when measured at dispensing rates between 6 and 10 gallons per minute.
 - b) Healy Clean Air Separator Static Pressure Performance test in accordance with E.O. VR- 201, Ex. 4.
 - c) Static Pressure Performance Test, in accordance with CARB Test Procedure TP-201.3 (3/17/99). If the tank size is 500 gallons or less, the test shall be performed on an empty tank.
- 5) The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).
- 6) The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be twenty (20) feet. The maximum allowable length of hose which may be in contact with the top of the island block or the ground shall be six (6) inches.
- 7) The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the trigger at the highest setting. Compliance with this condition shall be verified with only one nozzle in operation per product supply pump.
- 8) All ball valves shall be positioned for normal operation as shown in E.O. VR-201, Ex. 2, Figs. 2B- 5 through 2B-9 except when necessary for testing
- 9) The Healy EVR Phase II Vapor Recovery System without ISD shall be maintained in accordance with the System Operating Manual approved by CARB.

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- 10) No dispensing shall be allowed when a vapor collection pump is disabled for maintenance or for any other reason. Only those nozzles affected by the disabled vapor collection pump are subject to this condition.
- 11) Permanent access to vacuum assist equipment shall be provided for the purpose of inspection and/or testing.
- 12) The Healy EVR Phase II Vapor Recovery System without ISD shall be retrofitted with ISD controls as required by CARB.

~~COND# 22979~~

~~P10, S-4250, A/N 10158~~

- ~~1. The owner/operator of S-4250 shall not exceed 66,102 MMSCF of hydrogen produced in any consecutive 12-month period. (cumulative increase)~~
- ~~2. The owner/operator of S-4250 shall not exceed 181.1 MMSCF of hydrogen produced on any calendar day. (cumulative increase)~~
- ~~3. The owner/operator of S-4250 shall maintain a district approved daily log of hydrogen produced with monthly summaries. This log shall be kept onsite for at least five years from the date of entry and be made available to district staff upon request. (record keeping)~~

COND# 23001

APPLICATION 14096; Chevron; PLANT 10 CONDITIONS FOR S-4940

1. The owner/operator of S-4940 shall not exceed 7,028 gallons of NALCO TRI-ACT ~~1800-1825~~ throughput during any twelve-month period. The owner operator may store materials other than NALCO TRI-ACT 1800 provided that the owner/operator demonstrates by submitting to the District a Data Form X, an MSDS, and a demonstration that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels in Rule 2-5 (Basis: cumulative increase, [Rule-Regulation 2-5](#))
2. The owner/operator shall only store materials with a vapor pressure that shall not exceed 0.73 psia. (Basis: cumulative increase)
3. The owner/operator of S-4940 shall maintain records of storage tank throughput, type, storage vapor pressure and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: Cumulative Increase, [Rule-Regulation 2-5](#))

VI. Permit Conditions

COND# 23201

Application 14307/14308, P10

1. The owner/operator shall consider the sources listed below as affected facilities under NSPS Subparts A and J, for fuel gas combustion devices, including provisions of the approved Alternative Monitoring Program (AMP) for each source (Consent Decree case No. 03-04650, 6/27/05)

S-4070 F-1100A, 4 Crude
S-4071 F-1100B, 4 Crude
S-4038 F-3550, #4 Cat Furnace
S-4042 F-550, #5 Rheniformer
S-4062 F-447, 5 NHT Furnace
S-4068 F-1610, DHT Furnace
S-4059 F-247, JHT Furnace
S-4159 F-410, TKC Furnace
S-4160 F-420, TKC Furnace
S-4161 F-510, TKN/Isomax
S-4168 F-730, TKN/Isomax
S-4169 F-731, TKN/Isomax
S-4152 F-100, SDA
S-4155 F-135, SDA
~~S-4170 F-305, H2A~~
~~S-4171 F-355, H2B~~
S-4188 F-651, Poly
S-4189 F-661, Poly
S-4334 F-1200, LNC
S-4332 F-1360, LNHF
S-4338 F-1550, HNC
S-4350 Cogen Gas Turbine
S-4352 Cogen Gas Turbine
A-620 LPG Racks Plant Thermal Oxidizer
A-622 Yard DIB Thermal Oxidizer
A-623 21 Pump Station Thermal Oxidizer
A-624 17 Pump Station Thermal Oxidizer
A-627 FCCU Thermal Oxidizer
A-628 Alky Plant Thermal Oxidizer
A-900 Marine Vapor Recovery Thermal Oxidizer

COND# 23262

In addition to requirements of Regulation 8, Rule 5, the owner/operator shall comply with the following permit conditions for Source 3127 (S-3127, Tank 3127, External Floating Roof Tank).

1. The owner/operator shall not exceed a throughput of 223,000 barrels of recovered oil in any consecutive 12-month period. [[basis](#): Cumulative Increase]

VI. Permit Conditions

2. Unless this tank is operated under Part 5 below, the owner/operator shall only store materials with a maximum vapor pressure of 2.5 psia. [basis: Cumulative Increase]
3. The owner/operator shall not allow the total benzene concentration content of the material stored to exceed 0.38% by weight. [basis: Regulation 2, Rule 5]
4. To demonstrate compliance with Part 2 and 3, the owner/operator shall analyze material stored on a quarterly basis for vapor pressure and benzene content. [basis: Cumulative Increase]
5. The owner/operator is allowed to heat the contents of the tank under the following conditions:
 - a. The number of heating events shall not exceed three (3) in any rolling 12-month period,
 - b. The maximum temperature of the contents in the tank shall not exceed 150 degrees Fahrenheit,
 - c. The temperature of the tank shall be monitored while the tank is heated, and
 - d. The time allowed for heating the contents of the tank shall not exceed 21 consecutive days from the event start date. An event is counted when heat is applied to the tank. [basis: Cumulative Increase]
6. The owner/operator shall maintain the following records:
 - a. Monthly throughput of all material,
 - b. The total throughput of all material for each 12-month period,
 - c. All vapor pressure and benzene analyses results including the date the analyses were made,
 - d. The start date and stop date when the tank contents are heated, and
 - e. The peak temperature when the contents of the tank are heated. Records shall be kept on site for at least 5 years from the date of entry and made available to District staff upon request. [basis: Recordkeeping]

COND# 23735

Effective December 13, 2006 for S-6012, S-6013, S-6015, S-6016, ~~S-6017~~, S-6019, and S-6039 and October 25, 2007 for S-6010, The owner/operator of the following affected facilities/sources under NSPS Subpart J:

- S-6010 LSFO Flare
- S-6012 V-282 SOUTH ISOMAX FLARE
- S-6013 North Isomax Flare V-281
- S-6015 Refinery Waste Gas Flare (New D&R)
- S-6016 FCC Flare V-731
- ~~S-6017 ALKANE FLARE~~
- S-6019 V-732, Alky-Poly Flare
- S-6039 Lube Flare, V-3501

Shall comply with all applicable provisions of both NSPS Subparts A and J for flares
(Consent Decree case No. 03-04650, 6/27/05)

COND# 23765

For S-4360 at Plant 10:

1. The owner/operator of S-4360 (V-1315) shall not exceed 20,464 gallons in any consecutive 12-month period and 2558 gallons in any consecutive 24-hour period for S-4360 when the two carbon canisters in series (A-4360) is installed.
[Basis: Cumulative increase]
2. The owner/operator shall only use S-4360 for storage and handling of perchloroethylene (perc), and S-4360 shall be nitrogen blanketed at all times.
[Basis: Cumulative increase]

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3. The owner/operator shall vent S-4360 to the refinery relief gas system at all times of operation, except during loading operations when S-4360 is abated by the two carbon canisters in series (A-4360). [Basis: Cumulative increase]
4. The owner/operator of S-4360 shall monitor with a photo-ionization detector (PID), or other method pre-approved in writing by the Air Pollution Control Officer (APCO) at the following locations:
 - a. At the inlet to the first carbon vessel in series of A-4360. At the inlet to the last carbon vessel in series of A-4360.
 - b. At the inlet to the last carbon vessel in series of A-4360.
 - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere of A-4360.

The owner/operator shall calibrate the PID for perchloroethylene. Concentrations measured shall be considered perchloroethylene for the purposes of these permit conditions

5. The owner/operator shall maintain a District- approved monthly log of all monitoring data at the time taken. The monitoring results shall be used to estimate the frequency of Carbon change- out necessary to maintain compliance with part numbers 6 and 7, and shall be conducted during each filling/loading cycle. If any periods between each filling/loading cycle are more than 30 days, the owner/operator shall monitor at least once every 30 days. The owner/operator may request for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Engineering Division shall be received by the owner/operator prior to a change to the monitoring schedule.
6. The owner/operator of A-4360 shall immediately change the second to last Carbon vessel with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
 - a. 10 % of the inlet stream concentration to the vessel, or
 - b. 100 ppmv. [Basis: Cumulative increase]
7. The owner/operator of A-4360 shall not exceed 100 ppmv at the outlet of the last carbon vessel. The owner/operator shall cease venting S-4360 to A-4360, immediately upon detection of 100 ppmv at the outlet of the last carbon vessel, and shall vent immediately to the refinery relief gas system. The owner/operator shall not use A-4360 until the last carbon vessel has been changed out with fresh carbon. [Basis: Cumulative increase]
8. The owner/operator of S-4360 shall maintain the following records for each month of operation of the source:
 - a. The date and amount of time of each loading operation and the amount loaded.
 - b. Each monitor reading or analysis result for the day of operation that the readings are taken.
 - c. The number of Carbon beds removed and installed from service.
The owner/operator shall maintain in the district- approved monthly log all measurements, records, and data required above. This log shall be retained on site for at least five years from the date of entry and be made available to district staff upon request. [Basis: [Regulation- 2-6-501](#)]

VI. Permit Conditions

COND# 23773

For S-4363 at Plant 10:

1. The owner/operator of S-4363 (V-3592) shall not exceed 108,480 gallons in any consecutive 12- month period and 2260 gallons in any consecutive 24-hour period for S-4363 when the two carbon canisters in series (A-4363) is installed.
[Basis: Cumulative increase]
2. The owner/operator shall only use S-4363 for storage and handling of perchloroethylene (perc), and S-4363 shall be nitrogen blanketed at all times.
[Basis: Cumulative increase]
3. The owner/operator shall vent S-4363 to the refinery relief gas system at all times of operation, except during loading operations when S-4363 is abated by the two carbon canisters in series (A-4363). [Basis: Cumulative increase]
4. The owner/operator of S-4363 shall monitor with a photo-ionization detector (PID), or other method pre-approved in writing by the Air Pollution Control Officer (APCO) at the following locations:
 - a. At the inlet to the first carbon vessel in series of A-4363.
 - b. At the inlet to the last carbon vessel in series of A-4363.
 - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere of A-4363. The owner/operator shall calibrate the PID for perchloroethylene. Concentrations measured shall be considered perchloroethylene for the purposes of these permit conditions.
5. The owner/operator shall maintain a District- approved monthly log of all monitoring data at the time taken. The monitoring results shall be used to estimate the frequency of Carbon change- out necessary to maintain compliance with part numbers 6 and 7, and shall be conducted during each filling/loading cycle. If any periods between each filling/loading cycle are more than 30 days, the owner/operator shall monitor at least once every 30 days. The owner/operator may request for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Engineering Division shall be received by the owner/operator prior to a change to the monitoring schedule.
6. The owner/operator of A-4363 shall immediately change the second to last Carbon vessel with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following: a.10 % of the inlet stream concentration to the vessel, or b.100 ppmv.
[Basis: Cumulative increase]
7. The owner/operator of A-4363 shall not exceed 100 ppmv at the outlet of the last carbon vessel. The owner/operator shall cease venting S-4363 to A-4363, immediately upon detection of 100 ppmv at the outlet of the last carbon vessel, and shall vent immediately to the refinery relief gas system. The owner/operator shall not use A-4363 until the last carbon vessel has been changed out with fresh carbon.
[Basis: Cumulative increase]
8. The owner/operator of S-4363 shall maintain the following records for each month of operation of the source:
 - a. The date and amount of time of each loading operation and the amount loaded.
 - b. Each monitor reading or analysis result for the day of operation that the readings are taken.
 - c. The number of Carbon beds removed and installed from service. The owner/operator shall maintain in the district- approved monthly log all measurements, records, and data required above. This log shall be retained on site for at least five years from the date of entry and be made available to district staff upon request. [Basis: [Regulation- 2-6-501](#)]

VI. Permit Conditions

COND# 23774

For S-4364 at Plant 10:

1. The owner/operator of S-4364 (V-4091) shall not exceed 91,760 gallons in any consecutive 12- month period and 370 gallons in any consecutive 24-hour period for S-4364. [Basis: Cumulative Increase]
2. The owner/operator shall only use S-4364 for storage and handling of perchloroethylene (perc), and S-4364 shall be nitrogen blanketed at all times. [Basis: Cumulative increase]
3. The owner/operator shall vent S-4364 to the refinery relief gas system at all times of operation, except during loading operations when S-4364 is abated by the two carbon canisters in series (A-4364). [Basis: Cumulative increase]
4. The owner/operator of S-4364 shall monitor with a photo-ionization detector (PID), or other method pre-approved in writing by the Air Pollution Control Officer (APCO) at the following locations:
 - a. At the inlet to the first carbon vessel in series of A-4364.
 - b. At the inlet to the last carbon vessel in series of A-4364.
 - c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere of A-4364.

The owner/operator shall calibrate the PID for perchloroethylene. Concentrations measured shall be considered perchloroethylene for the purposes of these permit conditions.

5. The owner/operator shall maintain a District- approved monthly log of all monitoring data at the time taken. The monitoring results shall be used to estimate the frequency of Carbon change- out necessary to maintain compliance with part numbers 6 and 7, and shall be conducted during each filling/loading cycle. If any periods between each filling/loading cycle are more than 30 days, the owner/operator shall monitor at least once every 30 days. The owner/operator may request for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Engineering Division shall be received by the owner/operator prior to a change to the monitoring schedule.
6. The owner/operator of A-4364 shall immediately change the second to last Carbon vessel with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
 - a. 10 % of the inlet stream concentration to the vessel, or
 - b. 100 ppmv.[Basis: Cumulative increase]
7. The owner/operator of A-4364 shall not exceed 100 ppmv at the outlet of the last carbon vessel. The owner/operator shall cease venting S-4364 to A-4364, immediately upon detection of 100 ppmv at the outlet of the last carbon vessel, and shall vent immediately to the refinery relief gas system. The owner/operator shall not use A-4364 until the last carbon vessel has been changed out with fresh carbon. [Basis: Cumulative increase]
8. The owner/operator of S-4364 shall maintain the following records for each month of operation of the source:
 - a. The date and amount of time of each loading operation and the amount loaded.
 - b. Each monitor reading or analysis result for the day of operation that the readings are taken.
 - c. The number of Carbon beds removed and installed from service. The owner/operator shall maintain in the district- approved monthly log all measurements, records, and data required above. This log shall be retained on site for at least five years from the date of entry and be made available to district staff upon request. [Basis: [Regulation- 2-6-501](#)]

VI. Permit Conditions

COND# 23872

The owner/operator of the following affected facilities/sources under Consent Decree No. C 03- 04650 (CRB) shall comply with the NOx limits, monitoring requirements and emission calculation requirements set forth below.

1. The consecutive 365-day average NOx emission rates from the sources listed below shall not exceed the corresponding emission rate limits.
2. ~~For each source S 4170 and S 4171 (F 305 and F 355) the daily maximum firing rate shall be 19,680 million BTU (HHV). The annual maximum firing rate for each of these units shall be 7,183,200 million BTU (HHV).~~
3. Effective June 30, 2007 the owner/operator shall collect monitoring data for compliance with the limits listed below. The owner/operator shall use CEMs data or source test data to calculate emission rates for compliance determinations.

Source #	Source Description	NOx Limit (lb/MMBtu)	Monitoring Type
S-4042	#5 RHENIFORMER F550 w/36 Ultra Low NOx Burners	0.040	CEMS
S-4043	F560, #5 RHENIFORMER	0.040	CEMS
S-4044	#5 RHENIF F570	0.040	CEMS
S-4045	#5 RHENIF F580	0.040	CEMS
S-4059	#1 JHT Furnace #247	0.060	CEMS
S-4061	#5 NAPH HYDROTREATER F410	0.068	CEMS
S-4062	#5 NAPH HYDROTREATER F447	0.068	CEMS
S-4070	#4 CRUDE UNIT F 1100A	0.026	CEMS
S-4071	#4 CRUDE UNIT F1100B	0.027	CEMS
S-4072	#4 CRUDE UNIT F1160	0.029	CEMS
S-4129	800# STM BLR #1 #IPP	0.033	CEMS
S-4132	800# STM BLR #4 #1 PP	0.031	CEMS
S-4135	800# STM BLR #7 #1 PP	0.033	CEMS
S 4158	Hydrogen Plant Preheat Furnace F 340 Testing	0.035	Source
S-4159	F410 TKC FEED FURNACE TKC ISOMAX	0.035	CEMS
S-4160	F420 TKC FEED FURNACE TKC ISOMAX	0.035	CEMS
S-4167	F-710 TKC FRACTIONATOR ISOMAX	0.040	CEMS
S-4168	F-730 ISOCRACKER SPLITTER FEED FURNACE ISOMAX w/Ultra Low NOX Burners	0.034	CEMS
S-4169	F-731 ISOCRACKER REBOILER SOMAX w/Ultra Low NOX Burners	0.033	CEMS
S 4170	F305 REFORMING FURNACE, H2 PLANT	0.021	CEMS
S 4171	F355 REFORMING FURNACE, H2 PLANT	0.023	CEMS

(basis: Consent Decree Case No. C 03-04650 CRB, 6/29/2005)

VI. Permit Conditions

~~COND# 24022~~

- ~~1. The owner/operator shall operate S-7537 only when abated by A-7537, Catalyzed Diesel Particulate Filter, in accordance with manufacture's specifications. [Basis: Diesel Engine ATCM] Within 60 days and each 60 day period thereafter during which S-7537 operates for at least 72 cumulative hours, the owner/operator shall visually inspect the exhaust system of S-7537 with the engine running to ensure that there are no exhaust leaks upstream of the catalyzed diesel particulate filter. [Basis: Cumulative increase, Toxic risk screen, Diesel Engine ATCM]~~
- ~~2. This permit shall expire 30 days after the shutdown of the FCC unit, or January 1, 2011, whichever is earlier. The owner/operator shall cease operation of S-7537 upon expiration of this permit. [Basis: BACT, Cumulative increase, Toxic risk screen]The owner/operator shall notify the Director of Compliance and Enforcement or designee upon shutdown of S-7537 in compliance with Part 3 [Basis: Notification]~~
- ~~3. The owner/operator shall maintain the following records for S-7537:
 - ~~a. Document the manufacturer's recommended procedures for performing catalyzed diesel particulate filter maintenance, including the minimum inlet temperature to the catalytic particulate filter;~~
 - ~~b. Date, time and reason for any catalyzed diesel particulate filter maintenance;~~
 - ~~c. Date and results of visual inspection for exhaust system leaks;~~
 - ~~d. Monthly fuel usage for engine; and~~
 - ~~e. Records shall be kept at least for 5 years from the date of entry and be available for inspection upon request. [Basis: Recordkeeping]~~~~

COND# 24070

1. The owner/operator shall abate S-7513, S-7514, and S-7523, ~~and S-7526~~ (emergency standby engines) by the properly maintained and operated A-7513, A-7514, and A-7523, ~~and A-7526~~ (diesel particulate filters), respectively, during all periods of operation. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.6(b)(3), title 17, CA Code of Regulations]
2. The owner/operator of S-7513, S-7514, and S-7523, ~~and S-7526~~ shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.6(b)(3), title 17, CA Code of Regulations]
3. The owner/operator of S-7513, S-7514, and S-7523, ~~and S-7526~~ shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating hours while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.6(b)(3), title 17, CA Code of Regulations]
4. The owner/operator of S-7513, S-7514, and S-7523, ~~and S-7526~~ shall install and maintain the following monitoring equipment at each emergency standby engine;
 - a) A non-resettable hour meter with a minimum display capability of 9,999 hours; [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.10(e), title 17, CA Code of Regulations]

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5. Records: The owner/operator of S-7513, S-7514, and S-7523, ~~and S-7526~~ shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
- Hours of operation for reliability-related activities (maintenance and testing).
 - Hours of operation for emission testing to show compliance with emission limits.
 - Hours of operation (emergency).
 - For each emergency, the nature of the emergency condition.
 - Fuel usage for each engine(s).

[Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.10(g), title 17, CA Code of Regulations (or, District Regulation 2-6-501)]

COND# 24085

**Conditions for A-32105 Carbon Adsorbers, Calgon VAPOR PAC, 2 drums, 200 lb ea.
Abating S-4148
Application # 17446, Plant # 10**

- The owner/operator shall vent Source S-4148 at all times to Abatement device A-32105, two (200 lb minimum capacity) activated carbon vessels arranged in series. (Basis: Cumulative Increase)
- The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
 - At the inlet to the second to last carbon vessel in series.
 - At the inlet to the last carbon vessel in series.
 - At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere. When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions.

(Basis: Cumulative Increase)

- The owner/operator shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted on a weekly basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.

(Basis: Cumulative Increase)

- The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
 - 10 % of the inlet stream concentration to the Carbon vessel.
 - 298 ppmv or greater (measured as C4).

(Basis: Cumulative Increase)

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5. a. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (measured as C4).
- b. The owner/operator of S-4148 shall not exceed a flowrate of 70 cfm at the exhaust of A-32105. the flowrate shall be determined by a district approved method. At the time of issuance of application 22794, the flowrate will be determined on an hourly basis using the change in level of S-4148 to estimate the volumetric flowrate.

(Basis: Cumulative Increase)

6. The owner/operator of this source shall maintain the following records for each month of operation of the source:
- The hours and times of operation.
 - Each monitor reading or analysis result for the day of operation they are taken.
 - The number of carbon beds removed from service.
 - Flowrate measurement information including all the information necessary to determine the flowrate.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least five years [Note: This is five years for Title V facilities] following the date the data is recorded. (Basis: Cumulative Increase)

7. The owner/operator shall report any non-compliance with parts 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (Basis: Cumulative Increase)

COND# 24136

Modernization Project permit conditions A# 12842

December 7, 2018 (revised 13.c.ii – 300 hours/furnace to 600 hours/both furnaces combined)

FUGITIVE EQUIPMENT

1) Fugitive Equipment

Parts 1 through 4 apply to the Modernization Project Hydrogen Purity Improvements. The Hydrogen Plant fugitive equipment conditions appear in Parts 2, 3, 35, and 36.

a) The Owner/Operator shall as part of the Modernization Project install only the following types of valves in hydrocarbon service as defined in part 2: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO. [Basis: Cumulative Increase, BACT, Offsets, Regulation 8-18]

b) The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valve installed as part of the Modernization Project in hydrocarbon service as defined in part 2 unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. Valves that are not of a type listed in part 1(a) and for which a leak greater than 100 ppm (measured as C1) has been determined, shall become subject to the inspection provisions contained in Regulation 8-18 unless the component is already subject to the Part 4 inspection frequency. If the leak remains greater than 100 ppm (measured as C1) after repair, or if the valve is determined to have a leak greater than 100 ppm (measured as C1) a second time within a 5-year period, the Owner/Operator shall replace the valve with a type listed in part

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1(a) within 5 years or at the next scheduled turnaround, whichever is sooner. [Basis: BACT, Regulation 8 Rule 18]

c) The Owner/Operator shall install graphitic-based gaskets on all flanges or connectors (gasketed) installed as part of the Modernization Project in hydrocarbon service as defined in part 2 unless the Owner/Operator demonstrates to the satisfaction of the APCO that the service requirements prevent this gasket material from being used. [Basis: BACT]

d) The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges/connectors installed as part of the Modernization Project in hydrocarbon service as defined in part 2 unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: BACT, Regulation 8 Rule 18]

e) The Owner/Operator shall install dual mechanical seals w/ non-VOC barrier fluid (gas or liquid); or seal system with leakage vented to a thermal oxidizer; or oil ring seals with non-VOC/barrier fluid; or other District approved equivalent control device or technology as determined by the APCO on all compressors installed as part of the Modernization Project. [Basis: BACT]

f) The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any pumps and/or compressors installed as part of the Modernization Project in hydrocarbon service as defined in part 2 unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: BACT]

g) The Owner/Operator shall install double mechanical seals w/ barrier fluid; magnetically coupled pumps; canned pumps; magnetic fluid sealing technology; seal system with leakage vented to thermal oxidizer, or other BAAQMD approved equivalent control device; or District approved control technology as determined by the APCO on all pumps installed as part of the Modernization Project in hydrocarbon service as defined in part 2. The Owner/Operator shall install mechanical seals or District approved equivalent technology on all pumps in hydrocarbon service.

All pumps installed as part of the Modernization Project in hydrocarbon service where either the hydrocarbon has an initial boiling point greater than 302 degrees Fahrenheit or a flash point greater than 250 degrees Fahrenheit, shall be subject to quarterly inspection provisions contained in Part 4.c). If any of these pumps is determined to have a leak greater than 100 ppm (measured as C1) and if the leak remains greater than 100 ppm (measured as C1) after repair, or if the pump is determined to have a leak greater than 100 ppm (measured as C1) a second time within a 5-year period, then the owner/operator shall install double mechanical seals w/ barrier fluid; magnetically coupled pumps; canned pumps; magnetic fluid sealing technology; or gas seal system vented to thermal oxidizer or other BAAQMD approved equivalent control device or technology as determined by the APCO within 5 years or at the next scheduled turnaround, whichever is sooner. [Basis: BACT]

h) The Owner/Operator shall vent all pressure relief valves installed as part of the Modernization Project in hydrocarbon service as defined in part 2 subject to Rule 8-28 to a flare gas recovery system with a recovery and/or destruction efficiency of at least 98% by weight. [Basis: BACT]

i) Unless the equipment exclusively handles material(s) with a flash point greater than 250F, the Owner/Operator shall identify all new and replacement valves, pressure relief devices, flanges, connectors, process drains, pumps, and compressors installed as part of the Modernization Project in hydrocarbon service as defined in part 2 with a unique permanent identification code and shall include all new and replaced fugitive equipment in the fugitive equipment monitoring and repair program as specified in Parts 1 through 4.

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The owner/operator shall monitor all repaired equipment within 24 hours of the repair. The unique permanent identification code does not apply to quarter-inch or less tubing and connectors associated with analytical sampling systems. [Basis: Cumulative Increase, Offsets, BACT]

2) The Owner/Operator shall submit a count of pumps, compressors, valves, pressure relief devices, flanges/connectors, and process drains installed in hydrocarbon service. For the purpose of this condition, hydrocarbon service is defined as all organic compound materials with a flash point less than or equal to 250F or an Initial Boiling Point less than or equal to 302F. The intent of this condition is to extend the monitoring beyond that contained in Rule 8-18 up to the flash point of 250F. The owner/operator shall submit the component count within 30 days of the close of each calendar quarter until completion of project construction. The Owner/Operator has been permitted to install the following number of these hydrocarbon service fugitive components for the Modernization Project, including the Hydrogen Plant Replacement.

Pumps: 43 [As identified in part 1(i)]

Compressors: 46

Valves: 8,932

Pressure Relief Devices: 240

Connectors (No Flanges): 4,718

Flanges: 12,465

Process Drains: 207

The Owner/Operator shall not exceed 15.92 tons per year of POC emissions measured as C1 from all fugitive components included in the above counts, including Hydrogen Plant Replacement fugitive components. Compliance with this provision shall be verified quarterly using methods described in part 3. The results shall be submitted to the District within 30 days of the close of each calendar quarter after commencing with start-up of the first Modernization Project source. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry.

Within 30 days of the completion of the installation of all fugitive components, the owner/operator shall submit a final component count and POC emissions estimate to the District. If any of the fugitive component counts exceed a count stated above, the plant's cumulative increase emissions for the Modernization Project shall be adjusted as needed, subject to APCO approval, to reflect only the difference between emissions based on predicted component counts versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after the submittal of the final POC fugitive equipment count and corresponding final fugitive component POC emissions estimate. If any of the fugitive component counts are less than a count stated above, the total cumulative increase emissions may be adjusted accordingly and emission offsets applied by the owner/operator in excess of the permitted levels may be requested by the owner/operator through the submittal of a banking application. [Basis: Cumulative Increase, Offsets, Rule 2-5]

3) The Owner/Operator shall calculate fugitive emissions from all Modernization Project fugitive components in hydrocarbon service (including the Hydrogen Plant Replacement) utilizing District approved methods. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The owner/operator shall include emissions estimates from all Modernization Project fugitive components regardless of the component Rule 8-18 repair status. [Basis: Cumulative Increase, BACT, Offsets]

4) a) The Owner/Operator shall conduct inspections of Modernization Project fugitive components in hydrocarbon service as defined in Part 2 of these conditions in accordance with the frequency below:

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Pumps: Quarterly
Compressors: Quarterly
Valves: Quarterly
Pressure Relief Devices: Quarterly
Process drains: Quarterly
Connectors (Not Flanges): Biannual
Flanges: Biannual
[Basis: BACT, Regulations 8-18, 8-8]

b) The Owner/Operator shall conduct quarterly inspections of all Modernization Project pumps in hydrocarbon service with a flash point less than or equal to 250F. [Basis: BACT]

c) The Owner/Operator shall conduct quarterly inspections of all Modernization Project pumps in hydrocarbon service where either the hydrocarbon has an initial boiling point greater than 302 degrees Fahrenheit or a flash point greater than 250 degrees Fahrenheit. [Basis: BACT]

HYDROGEN PLANT REPLACEMENT

5) The Owner/Operator of Hydrogen Plant Trains (S-4449, S-4450) shall not exceed the following maximum capacity limit: [Basis: Cumulative Increase, Condition B.7 in City of Richmond Conditional Use Permit Resolution Number 67-14 dated July 29, 2014]

140 MMSCF of hydrogen for each train, calendar day maximum

244 MMSCF of hydrogen per calendar day for both trains combined on an annual average basis

6) The Owner/Operator of the Hydrogen Recovery Unit (S-4451) shall not exceed the following maximum capacity limitations: [Basis: Cumulative Increase]

50 MMSCF of hydrogen, calendar day maximum

7) The Owner/Operator shall fire only natural gas (including medium BTU natural gas), or Hydrogen Plant offgas ("PSA tail gas"), in the Hydrogen Plant Reformer Furnaces (S-4471, S-4472). The owner/operator of S-4471 and S-4472 shall not exceed a maximum of 30% natural gas of the total annual fuel usage (Btu basis) with the balance being PSA tail gas. [Basis: BACT]

8) The Owner/Operator shall abate the S-4471 furnace at all times of operation except startup, shutdown, dryout/warmup, and commissioning periods by the properly operated and properly maintained SCR unit A-0302. The Owner/Operator shall abate the S-4472 furnace at all times of operation except startup, shutdown, dryout/warmup, and commissioning periods by the properly operated and properly maintained SCR unit A-0303. [Basis: BACT]

9) a) The Owner/Operator shall not exceed the following combined annual limits from the hydrogen plant reformer furnaces (S-4471, S-4472) and hydrogen plant flare (S-6021) in any consecutive 12 month period: The emissions shall also include startup, shutdown, and dryout/warmup periods. [Basis: Cumulative Increase, 2-2-302, 2-2-303]

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NOx</u>	<u>64.43</u>
<u>CO</u>	<u>92.28</u>

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<u>SO2</u>	<u>5.25</u>
<u>PM10</u>	<u>20.98</u>
<u>POC</u>	<u>28.6</u>

The Owner/Operator shall not exceed the following combined annual limits from the hydrogen plant reformer furnaces (S-4471, S-4472) and hydrogen plant flare (S-6021) in any consecutive 12 month period when utilizing supplemental natural gas for the hydrogen plant flare: The emissions shall also include startup, shutdown, and dryout/warmup periods. [Basis: Cumulative Increase]

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NOx</u>	<u>67.81</u>
<u>CO</u>	<u>110.69</u>
<u>SO2</u>	<u>5.39</u>
<u>PM10</u>	<u>21.35</u>
<u>POC</u>	<u>35.57</u>

b) The Owner/Operator shall not exceed the following combined annual emissions limits from the hydrogen plant reformer furnaces (S-4471, S-4472) in any consecutive 12 month period: The emissions shall also include startup, shutdown, and dryout/warmup periods. [Basis: Cumulative Increase, 2-2-302, 2-2-303]

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NOx</u>	<u>53.28</u>
<u>CO</u>	<u>64.88</u>
<u>SO2</u>	<u>4.94</u>
<u>PM10</u>	<u>20.68</u>
<u>POC</u>	<u>23.22</u>

c) The Owner/Operator shall determine the daily and monthly emissions used to establish rolling annual emissions totals from S-4471 and S-4472 using continuous emission monitor (CEM) data for NOx and CO, and using District approved emission factors shown in part 14 and District-approved fuel consumption data from each S-4471 and S-4472 for PM10 and POC. The owner/operator shall determine daily (with monthly totals) SO2 emissions from the sum of the total sulfur in the natural gas (including medium BTU natural gas) fuel stream and the total sulfur in the feed gas stream ("PSA tail gas"), assuming 100% conversion of total sulfur to SO2. SO2 emissions shall be calculated using a method approved by the APCO. The sulfur in the natural gas fuel stream shall be calculated as the concentration of sulfur in the incoming natural gas supply, as measured daily by an on-stream analyzer, multiplied by the measured flow of natural gas used as fuel. The sulfur in the feed gas stream shall be calculated as the measured total feed gas processed in the desulphurization unit multiplied by the actual total sulfur content either as measured downstream of the desulphurization unit by the continuous on-stream analyzer or that analyzer's lower detection limit, whichever is greater.

The owner/operator of the hydrogen plant flare (S-6021) shall use the emissions factors presented in part 27 in order to demonstrate compliance with the part 9a annual limits.

[Basis: Monitoring, cumulative increase, offsets]

10) For each furnace (S-4471, S-4472), the Owner/Operator shall install, calibrate, maintain, and operate a District-approved CEM and recorder for NOx, CO and O2. [Basis: Regulation 1-523]

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11) The Owner/Operator of S-4471 and S-4472 shall properly install and operate District-approved equipment for continuous fuel flow monitoring and recording in order to determine fuel consumption, at each S-4471 and/or S-4472 using District approved methods. The Btu content of the fuels used at S-4471 and S-4472 shall be calculated or measured hourly at a minimum using a District-approved method. The gas composition analysis and sulfur content of the fuels used at S-4471 and/or S-4472 shall be measured and recorded hourly at a minimum using a District-approved method. Combustion stack flow shall be calculated using a District-approved method from either the fuel flow, gas composition, and combustion stack CEM excess oxygen monitor information, or a flow meter. [Basis: Monitoring, Cumulative Increase]

12) The Owner/Operator shall not exceed the following maximum heat input limits for each furnace (S-4471, S-4472): (1) 8,059,200 MMBTUs (HHV) in any consecutive 12 month period, and (2) 950 MMBTUs (HHV)/hr averaged over any calendar day. [Basis: Cumulative Increase, Offsets]

13)

a) The “Commissioning Period” is a one-time occurrence for each furnace, that shall commence when all mechanical, electrical, and control systems are installed and individual system start-up has been completed for that furnace. The Commissioning Period for each furnace shall terminate when the furnace has completed performance testing and is available for operation. In no event shall the Commissioning Period for either furnace exceed 90 days unless the applicant has made a written request for an extension and the District has granted such an extension. The commencement of the Commissioning Period shall be considered the date of initial operation for the Authority to Construct. The final startup conducted at the end of the Commissioning Period shall be considered the initial startup.

b) “Commissioning Activities” shall be defined as all testing, adjustment, tuning, and calibration activities during the Commissioning Period, recommended by the equipment manufacturers and the construction contractor, to insure safe and reliable steady state operation of the hydrogen plant reformer furnace and associated systems. [Basis: cumulative increase, offsets]

i) The Owner/Operator of S-4471 and S-4472 shall submit a District-approved commissioning plan that includes all commissioning activities and corresponding commissioning emissions estimates and monitoring within 60 days prior to any commissioning activities. [Basis: Cumulative Increase]

c) The following conditions shall apply during the Commissioning Period and Commissioning Activities:

i. During the Commissioning Period, the Owner/Operator shall demonstrate compliance with parts ii through iii below through the use of properly operated and properly maintained continuous emission monitors and data recorders for the following parameters:

- firing hours;
- fuel flow rates (calculated exhaust flow rate or measured exhaust flow rate);
- stack gas nitrogen oxide emission concentrations;
- stack gas carbon monoxide emission concentrations; and
- stack gas oxygen concentrations.

ii. The Owner/Operator shall not exceed 600 hours for both furnaces during the Commissioning Period of S-4471 and S-4472 hydrogen plant reformer furnaces without abatement by A-302 and A-303 SCR Systems, respectively. Such operation of the S-4471 and S-4472 hydrogen plant reformer furnaces without abatement shall be limited to discrete Commissioning Activities that can only be properly executed without the SCR system in operation. Upon completion of these activities for each furnace, the owner/operator shall provide written notice to the District and the unused balance of the 600 firing hours without abatement shall

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expire. The Owner/Operator shall maintain records of all furnace firing hours without the SCR systems in place and operational. (Basis: offsets, Cumulative Increase)

iii. The total mass emissions of NO_x, CO, POC, PM₁₀, and SO₂ that are emitted by the S-4471 and S-4472 hydrogen plant reformer furnaces during the commissioning period shall be included towards the consecutive twelve-month emission limitations specified in part 9. (Basis: offsets)

d) "Startup" shall mean that period of time including Furnace Startup as defined in part 13e and the introduction of hydrocarbon feedstock to the Hydrogen Plant S-4449 and S-4450, ending with the full routing of the PSA tail gas to either of the respective furnaces or when compliance with part 14 emission limits have been achieved. The period of time from the introduction of hydrocarbon feedstock to S-4449 and S-4450 to the end of startup shall not exceed 817 hours. Each individual "Startup", which includes Furnace Startup, shall not exceed 2450 hours except during the "Commissioning Period". For S-4449, "Startup" is completed once PV-17004 PSA1 Tail Gas to Flare Control Valve, has been closed for 30 minutes or when compliance with part 14 emission limits have been achieved. For S-4450, "Startup" is completed once PV-27004 PSA2 Tail Gas to Flare Control Valve, has been closed for 30 minutes or when compliance with part 14 emission limits have been achieved. If "Startup" shall be interrupted before completion, the resumed startup activities shall constitute a second "Startup" with its own time limitations.

e) "Furnace Startup" shall mean that period of time during which the furnace is put into service immediately following "Commissioning Period" as defined in part 13a, or any subsequent shutdown, by following a prescribed series of separate steps or operations. "Furnace Startup" shall be initiated when the furnace begins to receive fuel flow from its inactive, pre-startup temperature up to the point where the respective SCR unit is placed in operation in accordance with part 16 or when compliance with part 14 emission limits have been achieved. If "Furnace Startup" shall be interrupted before completion, the resumed furnace startup activities shall constitute a second "Furnace Startup" with its own time limitations.

i) The Owner/Operator of Furnaces S-4471 and S-4472 shall not exceed a combined total of 132230 consecutive hours during any consecutive 12-month period for "Furnace Startup". The owner/operator of each individual "Furnace Startup" shall not exceed 2036 hours for each hydrogen plant reformer furnace (S-4471 and S-4472) except during the "Commissioning Period".

f) "Shutdown" for S-4449 is initiated when ~~shall mean that period of time during which the furnace is taken out of service following a prescribed series of separate steps or operations~~ the PSA 1 Tail Gas to Flare Control Valve PV-17004 is opened and ends when fuel supply to the reformer has been shut off or when compliance with part 14 emission limits have been achieved ~~including clearing the reformer system piping of combustibles~~. "Shutdown" for S-4450 is initiated when the PSA 2 Tail Gas to Flare Control Valve PV-27004 is opened and ends when fuel supply to the reformer has been shut off or when compliance with part 14 emission limits have been achieved. "Shutdown" for each furnace S-4471 and S-4472 is initiated once ammonia injection into the respective SCR units (A-0302, A-0303) has been stopped in accordance with part 16. The end of shutdown is reached when the fuel supply to the reformer has been shut off or when compliance with part 14 emission limits have been achieved ~~and reformer system piping has been cleared of combustibles~~.

g) Except during the commissioning period, the Owner/Operator of S-4471 and S-4472 shall not exceed the following operation limitations for either furnace:

(1) Each "Shutdown" shall not exceed 912 consecutive hours.

h) The owner/operator shall not exceed 600 hours of total combined hours of Startup and Shutdown in any consecutive 12-month period. To demonstrate compliance with this part, the owner/operator shall

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maintain a District-approved log of the total time in hours and minutes of each Startup and Shutdown as defined in parts (d), (e), (f), and (g) above. The log shall be retained for five years of date of entry and shall be made available to District staff upon request.

i) “Dryout/warmup” shall mean an event that occurs during the Commissioning Period and whenever new hydrogen plant reformer furnace refractory has been installed. When this new refractory is heated for the first time or for the purpose of dryout. During this dryout/warmup period, the hydrogen plant reformer furnace is brought gradually to operating temperature through a series of prescribed steps designed to ensure safe operation of the furnace.

j) Except during the commissioning period, the Owner/Operator of S-4471 and S-4472 shall not exceed the following operation limitation for either furnace:

(1) Each “Dryout/Warmup” of new furnace refractory heating shall not exceed 120 hours per each dryout/warmup.

14) The Owner/Operator of S-4471 and S-4472 shall not exceed the following emission limits at each furnace except during startup, shutdown, dryout/warmup, and commissioning periods, unless specifically noted below:

a) NOx emissions – 5.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period. Note: This NOx emissions limit applies at times of operation of A-302 and A-303 as required in Part 16 of these conditions, when the catalyst bed is equal to or greater than 562 degrees F.;

[Basis: BACT]

b) CO emissions – 10.0 ppmv, dry, corrected to 3% oxygen averaged over any 1 hour period; [Basis: BACT]

c) PM10 emissions – 0.0026 lb/MMBtu (HHV), averaged over 3 hours; [Basis: BACT] and

d) POC emissions – 0.00288 lb/MMBtu (HHV), averaged over 3 hours.

e) SO2 emissions – See part 9c.

[Basis: BACT, cumulative increase]

15) The Owner/Operator of S-4471 and S-4472 shall demonstrate compliance with part 14 using a District-approved CEM for NOx and CO, and using District-approved fuel consumption and emission factors verified through District-approved source tests as specified in parts 17 and 18 for PM10 and POC. The owner/operator of S-4471 and S-4472 shall determine the SO2 emissions as specified in condition part 9c. [Basis: BACT]

16) The Owner/Operator of A-0302 and A-0303 shall operate A-302 and/or A-303 at all times of operation of S-4471 and/or S-4472, respectively, when the catalyst bed is equal to or greater than 500 degrees Fahrenheit except for during dryout/warmup. The Owner/Operator of A-0302 and A-0303 shall not exceed the following ammonia emission limits except during periods of startup, shutdown, dryout/warmup, and Commissioning unless otherwise specified: 10 ppmv of ammonia, dry, corrected to 3% oxygen, as verified by District approved source test method, not to exceed three hours averaging time. The owner/operator shall maintain the catalyst bed above 500 degrees at all times of operation of S-4471 and S-4472, except during startup, shutdown, or dryout/warmup of S-4471 or S-4472 as specified in part 13. [Basis: Toxics, BACT]

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a) The Owner/Operator shall not inject ammonia into the SCR units (A0302, A-0303) until the catalyst bed reaches 500 degrees Fahrenheit. During startup, the owner/operator shall start injecting ammonia as soon as practicable, but under no circumstances later than the lesser of either: 30 minutes from when the catalyst bed reaches 500 degrees Fahrenheit or the catalyst bed reaching a temperature of 562 degrees F. During shutdown, the owner/operator shall stop injecting ammonia when the catalyst bed reaches 500 degrees Fahrenheit. The Owner/Operator shall properly install and operate a control valve that automatically shuts off the ammonia injection when the catalyst bed reaches 500 degrees Fahrenheit during shutdown. The Owner/Operator shall maintain records that demonstrate the temperature during all times of operation of S-4471 and/or S-4472 and the times that the ammonia injection to the SCR unit(s) (A-302/303) begins and ends.

17) The Owner/Operator of S-4471 and S-4472 shall conduct a District-approved source test within 120 days of the initial startup date of each plant to demonstrate compliance with the limits in parts 9, 14 and 16 for POC, PM10, SO2, and ammonia slip. The Owner/Operator shall conduct the District-approved source tests in accordance with parts 18, and with the applicable parts of 109 through 117. The Owner/Operator shall submit the District approved source test results to the District no later than 60 days from the date of the source test. [Basis: BACT, Cumulative Increase, Offsets]

18) The Owner/Operator of S-4471 and S-4472 shall follow either (a) or (b) below to demonstrate subsequent compliance with the POC, PM10, and SO2 mass emission rates specified in parts 9 and 14 and the ammonia slip limit in part 16:

a) The Owner/Operator shall install, calibrate, and maintain a District approved continuous emission monitor and recorder for ammonia slip to demonstrate subsequent compliance with the ammonia slip limit in part 16. The Owner/Operator shall conduct one reference test or use the test from part 17 to demonstrate accuracy of the continuous emission monitor. After the initial source test, the Owner/Operator shall conduct three quarterly District approved source tests, followed by two semi-annual District approved source tests to demonstrate subsequent compliance with the POC, and PM10 mass emission rates specified in parts 9 and 14 and the ammonia slip limit in part 16. After the additional source tests specified in this part 18.a. have been completed, the Owner/Operator shall conduct a district approved source test in each subsequent calendar year to demonstrate compliance with the POC and PM10 mass emission rates specified in parts 9 and 14. Each subsequent calendar year source test shall be at least nine months apart, but not more than 15 months apart. The Owner/Operator may conduct less frequent source tests upon approval by the District. The owner/operator may be required by the APCO to conduct more frequent source tests if source test results indicate POC, SO2, and/or PM10 emissions are either within 90% of a limit or exceeding a limit specified in parts 9 and/or 14. The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 through 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test; or

b) After the initial source test specified in part 17 has been completed, the Owner/Operator of S-4471 and S-4472 shall conduct three quarterly District approved source tests, followed by two semi-annual District approved source tests to demonstrate subsequent compliance with the POC, and PM10 mass emission rates specified in part 14 and the ammonia slip limit in part 16. After the additional source tests specified in this part 18.b. have been completed, the Owner/Operator shall conduct a source test in each subsequent calendar year. Each subsequent calendar year source test shall be at least nine months apart. The Owner/Operator may conduct less frequent source tests upon approval by the District. The owner/operator may be required by the APCO to conduct more frequent source tests if source test results indicate POC, PM10, SO2, and/or ammonia slip emissions are within 90% of an emissions limit or exceeding an emissions limit specified in parts 9, 14 and/or 16. The Owner/Operator shall conduct the District approved source tests in accordance with the

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applicable parts of 109 through 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test. [Basis: Periodic Monitoring, cumulative increase]

19) The Owner/Operator of S-4471 and S-4472 shall not exceed the following emission limits: [Basis: Rule 2-5]

S-4471 Train 1 Hydrogen Furnace

<u>Arsenic</u>	<u>6.90 lb/yr</u>
<u>Cadmium</u>	<u>4.91 lb/yr</u>
<u>Nickel</u>	<u>40.74 lb/yr</u>

S-4472 Train 2 Hydrogen Furnace

<u>Arsenic</u>	<u>6.90 lb/yr</u>
<u>Cadmium</u>	<u>4.91 lb/yr</u>
<u>Nickel</u>	<u>40.74 lb/yr</u>

If source test results indicate that other toxic air contaminants not identified above are emitted at rates greater than evaluated prior to the issuance of the Authority to Construct, then the owner/operator shall re-run the HRSA to determine compliance with Regulation 2, Rule 5 and potentially add these compounds to the lists above.

20) The Owner/Operator of S-4471 and S-4472 shall conduct District approved source tests in accordance with part 109 through 117 to demonstrate compliance with the limits in part 19. The Owner/Operator may conduct less frequent source tests upon approval by the District. The owner/operator may be required by the APCO to conduct more frequent source tests if source test results indicate emissions are either within 90% of any part 19 emissions limit or exceeds any part 19 emissions limit. The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 through 117. [Basis: Rule 2-5, Source Tests]

Hydrogen Plant Cooling Water Tower (S-4465)

21) The Owner/Operator of S-4465 shall not exceed 51,840,000 gallons per calendar day of cooling water tower recirculation rate through the process equipment system. The owner/operator shall maintain a District-approved daily log of the total throughput (including cooling water tower recirculation rate) at S-4465. This log shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request.

[Basis: Cumulative Increase, Offsets]

22) The Owner/Operator of S-4465 shall conduct a District approved flow determination within 60 days of initial startup to demonstrate compliance with part 21 using the cooling tower water pump curves or other method approved by the APCO.

[Basis: Cumulative Increase, Offsets]

23) The Owner/Operator of S-4465 shall not exceed 5000 milligrams per liter total dissolved solids in the cooling tower. The Owner/Operator shall sample the cooling tower water on a monthly basis to determine total dissolved solids (TDS) content. The owner/operator shall calculate TDS from the result of a conductivity measurement in units of micromhos per centimeter ($\mu\text{mhos/cm}$) multiplied by 0.62 or other District-approved method. The PM10 emissions from the cooling tower drift shall not exceed 10.8 pounds per day or 1.97 tons

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per year, based on a 51,840,000 gallons per day recirculation rate, 5000 milligrams per liter of TDS, and a drift factor of 0.0005 percent. [Basis: Cumulative Increase, Offsets]

24) The Owner/Operator shall not emit VOC from S-4465, except as allowed in part 25. [Basis: Cumulative Increase, Offsets]

25) The Owner/Operator of S-4465 shall inspect the riser chamber in the cooling water return line to the cooling tower on a daily basis for a hydrocarbon leak using a District-approved method. If a leak is detected, the owner/operator shall both identify and repair the leak within 15 days. As part of the Modernization Project, POC emission reduction credits (ERCs) were provided to the District to cover 15 days (360 hours) of hydrocarbon leakage over any consecutive 12-month period. The Owner/Operator of S-4465 shall not exceed a POC emissions limit of either 36.0 lb/day or 0.27 tons/year. Should any leak occur for more than 360 hours in any consecutive 12-month period, the owner/operator shall submit to the District a permit application for a change of condition containing both an emissions estimate to be approved by the APCO and POC emission reduction credits (ERCs) to offset emissions from the leak of any hydrocarbon leakage in excess of 360 hours over any consecutive 12-month period at a ratio specified in Regulation 2, Rule 2. ERCs will be calculated as part of the permit application process. [Basis: Cumulative Increase, BACT, Offsets]

Hydrogen Plant Flare (S-6021/A-6021)

26) The Owner/Operator of the hydrogen plant flare S-6021 shall design S-6021 to maintain a hydrocarbon and carbon monoxide destruction efficiency of at least 98%, on a mass basis when the gases vented to the flare have a minimum lower heating value (LHV) greater than or equal to 300 BTU/scf, or at least 93%, on a mass basis when the gases vented to the flare have a minimum LHV below 300 BTU/scf. [Basis: Rule 12-11-401.9]

27) The Owner/Operator shall calculate S-6021 flare emissions for compliance with part 9a annual limits by using the following emission factors (including flare pilot and vented gas emissions):

a) NOx emissions - 0.068 lb/MMBtu for each combustible to be flared

b) CO emissions - 0.37 lb/MMBtu for flaring of natural gas, RPG, and methane. CO emissions for flaring will be calculated as 2.0% of CO concentration multiplied by the flow rate when fuel has lower heating value (LHV) greater than or equal to 300 BTU/scf and 7.0% of CO concentration multiplied by the flow rate when fuel has lower heating value less than 300 BTU/scf, unless both of the following parameters are satisfied:

i) The owner/operator may assume 98% destruction efficiency during flaring events when the LHV is less than 300 BTU/scf provided that the flare tip velocity does not exceed 122 feet/second. The owner/operator shall continuously monitor and record the flare tip velocity during all events, and

ii) The hydrogen content of the vent gas to the flare shall be maintained at a minimum of 15.5% by volume on a wet basis. The hydrogen content of the vent gas to the flared shall be continuously monitored and recorded during all events.

If both of the above parameters are satisfied, then 2.0% of CO shall be used in the flare emissions estimate for purposes of BACT, not for Rule 12-11 purposes. If either of the above parameters is not satisfied or if information is not available, then 7.0% of the CO shall be used in the flare emissions estimate. [Basis: BACT]

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c) POC emissions – 0.14 lb/MMBtu for flaring of natural gas, RPG and methane. POC emissions for flaring will be calculated as 2.0% of POC concentration multiplied by the flow rate when fuel has lower heating value (LHV) greater than or equal to 300 BTU/scf and 7.0% of POC concentration multiplied by the flow rate when fuel has lower heating value less than 300 BTU/scf, unless both of the following parameters are satisfied:

i) The owner/operator may assume 98% destruction efficiency during flaring events when the LHV is less than 300 BTU/scf provided that the flare tip velocity does not exceed 122 feet/second. The owner/operator shall continuously monitor and record the flare tip velocity during all events, and

ii) The hydrogen content of the vent gas to the flare shall be maintained at a minimum of 15.5% by volume on a wet basis. The hydrogen content of the vent gas to the flared shall be continuously monitored and recorded during all events.

If both of the above parameters are satisfied, then 2.0% of POC shall be used in the flare emissions estimate for purposes of BACT, not for Rule 12-11 purposes. If either of the above parameters is not satisfied or if information is not available, then 7.0% of the POC shall be used in the flare emissions estimate. [Basis: BACT]

d) PM10 emissions - 0.00745 lb/MMBtu for flaring of natural gas, RPG, CO and methane.

e) SO2 emissions - Calculated from both the fuel usage and total sulfur in the fuel to the flare pilot (burner) and the flow rate and total sulfur content of the vent gas to be flared assuming 100% conversion of total sulfur to SO2.

[Basis: Cumulative Increase]

28)

The owner/operator shall fire S-6021 flare pilots continuously with only natural gas. When flaring gas containing refinery process gas (RPG) and/or refinery fuel gas (RFG), the owner/operator of S-6021 flare shall only operate the flare during periods of planned startup, planned shutdown, emergency upset and breakdown. A planned shutdown may include small amounts of RPG and/or RFG from piping system maintenance activities provided that those activities are conducted in accordance with an APCO-approved Regulation 12, Rule 12 Flare Minimization Plan (FMP). For purposes of this part, an emergency is a situation that is beyond the reasonable control of the owner/operator that is caused by a sudden, infrequent and not reasonably preventable equipment failure, natural disaster, act of war or terrorism or external power curtailment, excluding power curtailment due to an interruptible power service agreement from a utility. For the purposes of this part, a breakdown is considered any unforeseeable failure or malfunction where such failure or malfunction is not the result of intent, neglect, or disregard to this part, or improper maintenance and is not excessively recurrent. In the absence of any other indicators, the owner/operator shall conduct an investigation to determine if RPG or RFG has been flared when SO2 emissions from S-6021 exceed two pounds per day. When flaring gas containing no RPG or RFG, the owner/operator of S-6021 flare shall only operate the flare in accordance with the District-approved FMP for the Chevron Richmond Refinery. The owner/operator of S-6021 shall not exceed the maximum design capacity of 217,000 lb/hour of vent gas to the flare as defined in Regulation 12-11-210. The owner/operator of S-6021 shall use steam assist at S-6021 during all times that vent gas is being sent to S-6021. [Basis: BACT]

28) — The owner/operator shall fire S-6021 flare pilots continuously with only natural gas. When flaring gas containing refinery process gas (RPG) and/or refinery fuel gas (RFG), the owner/operator of S-6021 flare shall only operate the flare during periods of planned startup, planned shutdown, emergency upset and breakdown. When flaring gas containing no RPG or RFG, the owner/operator of S-6021 flare shall only operate the flare in accordance with the District approved Flare Minimization Plan (FMP) for the Chevron Richmond Refinery. The owner/operator of S-6021 shall not exceed the maximum design capacity of 217,000

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~~1b/hour of vent gas to the flare as defined in Regulation 12-11-210. The owner/operator of S-6021 shall use steam assist at S-6021 during all times that vent gas is being sent to S-6021. [Basis: BACT]~~

29) For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15-minute period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using District-approved video monitoring or District-approved visible inspection following the procedure described in part 30b.

[Basis: Regulation 12-12]

30) The Owner/Operator shall use the following procedure for the initial inspection and each subsequent 30-minute inspection of a flaring event.

a) If the Owner/Operator can determine that there are no visible emissions using District-approved video monitoring, then no further monitoring is necessary for that particular inspection.

b) If the Owner/Operator cannot determine that there are no visible emissions using video monitoring, the Owner/Operator shall conduct a visual inspection outdoors using either:

i) EPA Reference Method 9, or

ii) Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.

c) If a visible emission is observed, the Owner/Operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.

d) The Owner/Operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with part 31. After a violation is documented, no further inspections are required until the beginning of a new calendar day.

[Basis: Regulation 6-1-301, 2-1-403]

31) The Owner/Operator of S-6021 shall comply with one of the following requirements if visual inspection is used:

a) If EPA Method 9 is used, the Owner/Operator shall comply with Regulation 6-1-301 when operating the flare.

b) If the procedure of part 30.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes.

[Basis: Regulation 2-6-403]

32) The Owner/Operator of S-6021 shall maintain records of all flaring events, as defined in part 29 for a period of five years from the date of entry. These records shall be kept onsite and made available to District staff upon request. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video inspection or visual monitoring (EPA Method 9 or visual inspection procedure of part 30) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in part 30) or Regulation 6-1-301 (using EPA method 9) occurred. [Basis: Regulation 2-6-501; 2-6-409.2]

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33) The owner/operator of S-6021 shall comply with the monitoring, recordkeeping and reporting requirements for the flare as outlined in Regulation 12-11. The owner/operator of S-6021 shall properly install, maintain, and operate a District-approved total sulfur monitor in the flare gas. In order to demonstrate compliance with Parts 9a, 27, 28, the owner/operator shall maintain records of the lower heating value (BTU/scf) of the vented gas for each flaring event and if the flare vent gas contained any RPG or RFG. The owner/operator of S-6021 shall properly install and operate the pilot and purge monitoring as required in Sections 12-11-503 and 12-11-504. [Basis: Regulation 12-11]

34) The Owner/Operator of S-6021 shall operate the flare in accordance with the District-approved Flare Minimization Plan (FMP) for the Chevron Richmond Refinery. [Basis: Regulation 12-12]

Hydrogen Plant Fugitives

35) Fugitive Equipment

a) The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall install only the following types of valves in RPG, RFG and/or natural gas service (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) Teflon packed, (5) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO. [Basis: Cumulative Increase, BACT, Offsets, 8-18]

b) The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valve installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. Valves that are not of a type listed in part 35(a) and for which a leak greater than 100 ppm (measured as C1) has been determined, shall become subject to the inspection provisions contained in Regulation 8-18-401 unless the component is already subject to the Part 36 inspection frequency. If the leak remains greater than 100 ppm (measured as C1) after repair, or if the valve is determined to have a leak greater than 100 ppm (measured as C1) a second time within a 5-year period, the Owner/Operator shall replace the valve with a type listed in part 35(a) within 5 years or at the next scheduled turnaround, whichever is sooner. Methane service shall be any stream that contains any methane. For the purposes of these permit conditions, RPG is refinery process gas and RFG is refinery fuel gas. [Basis: BACT, Regulation 8 Rule 18]

c) The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall install as part of this project graphitic-based gaskets on all flanges or connectors (gasketed) installed in natural gas, process gas, RPG and/or RFG service unless the Owner/Operator demonstrates to the satisfaction of the APCO that the service requirements prevent this material from being used. [Basis: BACT]

d) The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges/connectors installed as part of the Hydrogen Plant in RPG, RFG, methane, and/or natural gas service unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: BACT, Regulation 8 Rule 18]

e) The owner/operator shall install liquid seals with non-VOC purge fluid (gas or liquid) or dual dry gas mechanical seals with inert/non-VOC purge gas or dual dry gas mechanical seals with venting to an approved recovery/abatement device or other BAAQMD Approved control device or technology on all compressors installed in TOC service as part of the Modernization Project or other BAAQMD Approved control device or technology. [Waiting for Praxair information on proposed seals.] [Basis: BACT]

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f) The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any pumps and/or compressors installed in RPG, RFG, and/or natural gas service as part of the Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: BACT]

g) The Owner/Operator shall install dual mechanical seals, vented to a District approved abatement device that achieves a minimum of 95% VOC destruction efficiency or District approved equivalent technology as determined by the APCO on all pumps in RPG, RFG, and/or natural gas service installed as part of the Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021). [Basis: BACT]

h) The Owner/Operator shall vent all pressure relief valves in hydrocarbon service subject to Rule 8-28 to a furnace or flare with a destruction efficiency of at least 98% by weight. Hydrocarbon service as defined in Part 2 of these conditions.

i) The Owner/Operator shall identify all new valves, pressure relief devices, flanges, connectors, process drains, pumps, and compressors installed in RPG, natural gas, methane, and/or RFG service as part of the Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) with a unique permanent identification code. This identification code does not apply to quarter-inch or less tubing and connectors associated with analytical sampling systems. The owner/operator shall clearly identify the fugitive components listed above that are in methane service only. The Owner/Operator shall include all new fugitive equipment in the fugitive equipment monitoring and repair program. [Basis: Rule 8-18 (includes methane), cumulative increase, offsets, BACT]

j) The owner/operator of all fugitive components at the Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall handle only RPG, RFG, natural gas, and methane. [basis: BACT, 8-18, 2-5]

36) The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall conduct inspections of all Hydrogen Plant sources fugitive components in RPG, RFG, and/or natural gas service based on the frequency below:

<u>Pumps:</u>	<u>Quarterly</u>
<u>Compressors:</u>	<u>Quarterly</u>
<u>Valves:</u>	<u>Quarterly</u>
<u>Pressure Relief Devices:</u>	<u>Quarterly</u>
<u>Connectors (No Flanges):</u>	<u>Biannual</u>
<u>Flanges:</u>	<u>Biannual</u>
<u>Process Drains:</u>	<u>Quarterly</u>

The Owner/Operator of all Hydrogen Plant sources (S-4449, S-4450, S-4451, S-4471, S-4472, and S-6021) shall conduct inspections of all Hydrogen Plant sources' fugitive components exclusively in methane service in accordance with the frequencies specified in Rule 8-18.

[Basis: BACT, Regulation 8-18]

Hydrogen Plant General Recordkeeping

37) The Owner/Operator of S-4449, S-4450, S-4451, S-4471, S-4465, S-4472, S-6021, A-302, A-303, A-6021 shall maintain all CEM and all source testing records and the following associated records (i.e. fuel

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usage rates, HHV heat content of fuel, hours of operation, flow rates used for emissions calculations, daily, monthly, and annual mass emissions estimates, etc.) for the last 5 years of operation to verify compliance with Modernization Project permit conditions. [Basis: Recordkeeping]

- a) For part 11, continuous fuel flow and gas component analysis records and calculations of combustion stack flow.
- b) For part 12, daily, monthly, and consecutive 12 month heat input (HHV) to each furnace (S-4471, S-4472).
- c) For part 13)c)i, firing hours, fuel flow rates, and stack gas concentrations.
- d) For part 13)c)i, 14, and part 15, the CEMS records for each furnace (S-4471, S-4472).
- e) For part 13)c)ii, all furnace firing hours without the SCR in place and operational.
- f) Throughput for parts 5,6, 21
- g) Emissions data for parts 9, 14,15, 16, 18, 19, 23, 25, 27, all source test results required within parts 5-36 [BAAQMD recordkeeping]

38) The Owner/Operator shall maintain the following in a District-approved daily log and shall keep these records on site for a period of at least 5 years from date of entry and make the records available to District staff upon request. [Basis: Regulation 2-1-301, Recordkeeping]

In order to demonstrate compliance with part 5, the Owner/Operator shall maintain the daily, monthly, and consecutive 365-day total record of hydrogen production (MMSCF of H₂ per day) for each new Hydrogen Plant Train (S-4449, S-4450);

In order to demonstrate compliance with part 6, the owner/operator shall maintain daily, monthly, and consecutive 365-day total record of hydrogen production at S-4451; and

In order to demonstrate compliance with part 7, the owner/operator shall maintain daily, monthly, and consecutive 365-day total record of all fuel usage at S-4471 and S-4472.

39) DELETED

40) DELETED

41) DELETED

42) DELETED

43) DELETED

44) DELETED

45) DELETED

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50) DELETED

51) DELETED

52) DELETED

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74) Deleted.

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75) DELETED

76) DELETED

HYDROGEN PURITY IMPROVEMENTS

77) The Owner/Operator of S-4454 No. 6 H2S Plant (Recycle Amine Regenerator) shall not exceed the following limits:

[Basis: Cumulative Increase]

3358 MMSCF H2S produced, any consecutive 12-month period
11 MMSCF H2S produced, maximum per calendar day

78) DELETED (Superseded by permit condition 25814)
(Sulfur Loading Rack S-4490 was issued a separate ATC under Application 25793 in June 2014 and its operation is governed by permit condition 25814)

79) DELETED (Superseded by permit condition 25814)
(Sulfur Loading Rack S-4490 was issued a separate ATC under Application 25793 in June 2014 and its operation is governed by permit condition 25814)

80) The Owner/Operator of S-4253 TKC/FCC Feed Hydrotreater shall not exceed the following throughput limitations:

29,200 kbbbl feed material, over any consecutive 12-month period
80,000 bbl feed material per day on an annual average basis
96,000 bbl feed material, calendar day

[Basis: Cumulative Increase, Condition B.9 in City of Richmond Conditional Use Permit Resolution Number 67-14 dated July 29, 2014]

Sulfur Recovery Units S-4227 through S-4229:

81) The Owner/Operator of A-0020, A-0021 and A-0022 Tail Gas Units abating the S-4227, S-4228, and S-4229 Claus Plants (SRUs), respectively, shall each maintain a minimum oxidization temperature of 1400 degrees Fahrenheit. [Basis: BACT]

The owner/operator shall comply with the temperature limit of 1400F in Part 81 at all times, except during an "Allowable Temperature Excursion" as specified below, provided that the temperature controller setpoint remains at a minimum of 1400 degrees Fahrenheit. An Allowable Temperature Excursion is one of the following:

- a. A temperature excursion not exceeding 20 degrees F; or
- b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
- c. A temperature excursion for a period or periods which when combined is more than 15 minutes in any hour, provided that all three of the following criteria are met.
 - i. the excursion does not exceed 50 degrees F;

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- ii. the duration of the excursion does not exceed 24 hours; and
- iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12-excursion limit. (basis: Regulation 2-1-403)

For each Temperature Excursion below 1400 degrees Fahrenheit, the owner/operator shall keep all records to the satisfaction of the APCO in order to demonstrate compliance with the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Temperature controller setpoint;
 - b. Starting date and time, and duration of each Allowable Temperature Excursion;
 - c. Measured temperature during each Allowable Temperature Excursion;
 - d. Number of both Temperature Excursions and Allowable Temperature Excursions per month, and total number for the current consecutive 12-month period; and
 - e. All strip charts or other temperature records.
- (Basis: Regulation 2-1-403)

82) The owner/operator of S-4227, 4228 and 4229 shall abate each at all times of operation of S-4227, S-4228, and S-4229 by the properly maintained and properly operated A-20, A-21, and A-22 tail gas units, respectively. The owner/operator shall also install and maintain an acid gas scrubber (A-4450) to prevent the release of acid gas during an unscheduled loss of SRU capacity. The owner/operator of S-4227, 4228, and 4229 shall not exceed a combined acid gas feed rate to the three SRUs of 24.5 MMscf/day averaged over any consecutive 3-hour period plus an additional 3 MMscf/day from sour water sources, which can be shut down immediately. Prior to exceeding the emergency scrubber capacity of A-4450 and/or A-4451, the owner/operator shall shut down refinery acid gas generating sources including the 3 MMscf/day from sour water sources, and cease acid gas generation at the refinery to reduce the acid gas feed rate below the capacity of the two remaining SRUs ("Load Shed Procedures"). (Basis: BACT)

83) The owner/operator of S-4227, S-4228, and S-4229 shall abate each by the properly installed, properly maintained, and properly operated A-120, A-121, and A-122 Wet Electrostatic Precipitators (Wet ESPs), respectively, at all times of operation of S-4227, S-4228, and/or S-4229. [Basis: BACT, Rule 2-5].

84) The Owner/Operator of S-4227, S-4228, and S-4229 shall not exceed the following limits at the emission point of each A-0020, A-0021, and A-0022 except during periods of startup, shutdown, and refractory dryout as defined below, as demonstrated by a District-approved source test method, CEM, or other District-approved method:

- a) NOx emissions of 50.0 ppm, dry, corrected to 0% O₂, 3-hour average
- b) SO₂ emissions of 50.0 ppm, dry, corrected to 0% oxygen, averaged over any calendar day
- c) H₂S emissions of 4.0 ppm, dry, corrected to 0% O₂, averaging time based on district approved source test method
- d) PM₁₀ emissions: short-term limit as specified in part 88.
- e) Sulfuric Acid Mist emissions: See part 95
- f) 15,000 dscfm, corrected to 0% O₂, exhaust flow rate averaged over any 1 hour period at each S-4227 and S-4228.
- g) 30,000 dscfm, corrected to 0% O₂, exhaust flow rate averaged over any 1 hour period at S-4229.

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For the purposes of complying with this part, the following definitions and limits apply for the startup, shutdown, and refractory dryout periods of S-4227, S-4228, and/or S-4229:

“Startup” begins with startup of the main air blower and ends when operation is stable and the Air-to-H₂S ratio controller is placed in the automatic control mode.

“Refractory dryout” shall mean an event that occurs whenever new refractory has been installed. When this new refractory is heated for the first time, the unit is brought gradually to operating temperature through a prescribed series of steps designed to ensure safe operation.

The owner/operator of S-4227, S-4228, or S-4229 shall not exceed 12 consecutive hours for startup or 24 hours for startups involving refractory dryout.

“Shutdown” begins after acid gas feed has been replaced with natural gas purge and, following the sequence to remove residual sulfur compounds from the unit, the Main Reaction Furnace firing rate is reduced while increasing excess O₂ to check for residual reactions. The shutdown period ends when the main air blower is shut down.

The owner/operator of S-4227, S-4228, or S-4229 shall not exceed 9 consecutive hours for any shutdown.

[Basis: BACT, cumulative increase, Rule 2-5]

85) The Owner/Operator of S-4227, S-4228, and S-4229 shall comply with parts 84, 86, 87, 90, and 92. These conditions supersede Condition 19063, after modification of each SRU S-4227, S-4228, and S-4229, respectively. [Basis: BACT, Rule 2-5, Cumulative Increase]

86) The Owner/Operator of S-4227, S-4228, and S-4229 Sulfur Recovery Units (SRUs) shall perform all of the following:

a. In order to reduce H₂S bypassing at the thermal oxidizers, the owner/operator shall modify each SRU’s thermal oxidizer internals for better mixing, improve the control of excess oxygen, and relocate the sulfur pit vent line to the tail gas inlet line unless studies required below demonstrates that there is no beneficial effect. Within 60 days of the issuance of the Authority to Construct for this project, the owner/operator shall both conduct and submit studies in order to indicate whether the relocation of the sulfur pit vent line to the tail gas inlet line would have any beneficial effect, subject to District approval. If the study demonstrates to the satisfaction of the District that there is a beneficial effect, then the owner/operator shall relocate the sulfur pit vent line to the tail gas inlet line. Within 60 days of the issuance of the Authority to Construct for this project, the owner/operator shall submit the thermal oxidizer engineering design drawings or other equivalent drawings, and a written explanation of all design features that demonstrate that the thermal oxidizer internals will improve mixing and detailed description of measures taken to improve the control of excess oxygen.

b. The owner/operator shall install ultra low-NO_x burners equipped with fuel induced recirculation (FIR) on each thermal oxidizer of each SRU. Within 30 days of an ultra low-NO_x burner vendor or design selection, the owner/operator shall submit for District approval the design drawings and explain the design features that will result in the NO_x reductions.

c. The owner/operator shall install ultra low-NO_x burners equipped with FIR on each stack gas heater of each SRU. Stack gas source numbers are S-4436, S-4437, and S-4438. Within 30 days of an ultra low-

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NOx burner vendor or design selection, the owner/operator shall submit for District approval the design drawings and explain the design features that will result in the NOx reductions.

d. The owner/operator shall not exceed the following maximum firing rates: (Basis: Cumulative Increase)

<u>No. 1 SRU Stack Gas Heater</u>	<u>S-4436</u>	<u>765.60 MMBTU/day HHV</u>
<u>No. 2 SRU Stack Gas Heater</u>	<u>S-4437</u>	<u>765.60 MMBTU/day HHV</u>
<u>No. 3 SRU Stack Gas Heater</u>	<u>S-4438</u>	<u>1,346.0 MMBTU/day HHV</u>

<u>No. 1 SRU</u>	<u>Thermal Oxidizer burner S-4227/A-20</u>	<u>739.0 MMBTU/day HHV</u>
<u>No. 2 SRU</u>	<u>Thermal Oxidizer burner S-4228/A-21</u>	<u>739.0 MMBTU/day HHV</u>
<u>No. 3 SRU</u>	<u>Thermal Oxidizer burner S-4229/A-22</u>	<u>1,080.0 MMBTU/day HHV</u>

e. The owner/operator shall perform District-approved computational fluid dynamic analysis (flow modeling) of the thermal oxidizers to assist in optimizing the performance. The results shall be submitted to the District for review and approval.

f. The owner/operator shall improve the scrubbing of SO₂ by the SRU SO₂ Absorbers by increasing the makeup sodium sulfite rate, and upgrading the piping and controls to meet the SO₂ concentration limit in Part 84c. The controls for caustic makeup will also be upgraded for more stable operation. Within 60 days of the issuance of the Authority to Construct for this project, the owner/operator shall submit for District review and approval the pre-project and post-project engineering design drawings or other equivalent drawings that demonstrate, which may include the following to meet the SO₂ concentration limit in Part 84c:

1. the makeup sodium sulfite rate for each SRU to improve the scrubbing of SO₂ by the SO₂ Absorbers,
2. the piping and control upgrades, and
3. the caustic makeup control upgrades.

g. On S-4454 #6 H₂S Recovery Unit, the owner/operator shall install carbon filtration of the amine, optimize sizing and internal design of the amine flash drum, and follow Best Practice design guidelines for hydrocarbon removal including District-approved monitoring and carbon change-out procedures.

h. Within 60 days of the issuance of the Authority to Construct for this project, the owner/operator shall complete design development and submit the design for District review in order to identify whether an alternative design will achieve or accomplish the same objective to the satisfaction of the District, which is to reduce C₃ and C₄ carryover into the vent gas and acid gas by adding/upgrading coolers in at least three locations.

i. The owner/operator shall reroute the PSA tail gas, which currently goes to the RLOP Gas Recovery Unit to the Hydrogen Plant (S-4449 through S-4450) feed or to the refinery fuel gas system in order to reduce the GRU feedrate and improve cooling and separation at the RLOP GRU.

j. The owner/operator of S-4227, S-4228, and S-4229 shall properly install and properly operate a Medium Oxygen Enrichment System (up to 50%) in order to comply with parts 84, 87, 90, and 92.

(Basis for parts a through j, not including d: Cumulative Increase, BACT)

87) The Owner/Operator of S-4227, S-4228, and S-4229 shall abate the S-4227, S-4228, and S-4229 SRUs at all times of operation by the properly installed, properly maintained, and properly operated A-20, A-

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21, and A-22 Tail Gas Units, respectively, and the properly installed, properly maintained, and properly operated A-120, A-121, A-122 Wet Electrostatic Precipitators (Wet ESPs), respectively. The owner/operator of each SRU S-4227 through S-4229 shall not exceed the following total sulfur production levels [Basis: cumulative increase, offsets, Rule 2-5, Condition B.8 in City of Richmond Conditional Use Permit Resolution Number 67-14 dated July 29, 2014]:

a) S-4227 abated by A-20 and A-120:

i) The lesser of either: 345 Long Tons in any calendar day, or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations. Annual throughput values will be determined either through District-approved source testing and/or the use of the District-approved CEMs and District-approved flowmeters in order to determine the maximum annual throughput that corresponds to compliance with all annual emissions limits.

b) S-4228 abated by A-21 and A-121:

i) The lesser of either: 345 Long Tons in any calendar day or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations. Annual throughput values will be determined either through District-approved source testing and/or the use of the District-approved CEMs and District-approved flowmeters in order to determine the maximum annual throughput that corresponds to compliance with all annual emissions limits.

c) S-4229 abated by A-22 and A-122:

i) The lesser of either: 570 Long Tons in any calendar day, or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations. Annual throughput values will be determined either through District-approved source testing and/or the use of the District-approved CEMs and District-approved flowmeters in order to determine the maximum annual throughput that corresponds to compliance with all annual emissions limits.

d) The total combined calendar day throughput from S-4227, S-4228, and S-4229 combined shall not exceed either of the following:

900 Long Tons in any calendar day

750 Long Tons per day on an annual average basis

e) The owner/operator of S-4227, S-4228, and S-4229 may exceed the throughput levels established through District-approved source testing per Parts 87a, b, and/or c and the next paragraph, upon receipt of written approval by the APCO of a source test plan for demonstrating compliance with all concentration and mass limits at a higher throughput level. During the source test, the throughput level may not exceed the maximum level stated in Parts 87a, b, and/or c and all emissions measured by CEMs shall remain in compliance with the permitted concentration and/or permitted mass levels to be averaged over the source test. Exceedance of emission levels determined by source testing that occur during the source test shall not be considered a violation as long as Chevron follows the source test plan pre-approved by the APCO. Until 24-months after startup of each SRU, the owner/operator may conduct source tests, pursuant to this part, to establish the throughput levels not to exceed the maximum throughput levels specified in Part 87 for each SRU. During this time period, consistent with both Regulation 2-1-234 and Regulation 2-5-214, an increase in throughput up to the maximum throughput levels as specified in Part 87 shall not be considered a modification for purposes of Regulation 2 provided that there is no increase in any permitted emission levels from these SRUs. For the purposes of Regulation 2, Rule 6, changes made as a result of this part shall be considered either Minor or Administrative as determined by the APCO.

The owner/operator of S-4227, S-4228, and S-4229 shall conduct a district pre-approved source test within 120 days of modification of each unit, on each unit operating at maximum throughput levels listed above in

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order to demonstrate compliance with all emissions limits (NOx, CO, SO2, PM10, POC, H2S, and H2SO4) at maximum throughput levels. The 120-day deadline for this testing may be extended upon written approval of the APCO. The source test shall also note all operating parameters determined by the District as part of the source test pre-approval, which may become enforceable permit conditions if the district determines that the parameters are required in order to comply with all emissions limits. The throughput levels above may be adjusted based on the District-approved results of the District-approved source test. The throughput levels may be subsequently adjusted up to the maximum levels listed in Parts 87a, b, and/or c based on the results of the subsequent source testing through the submittal of a District permit application. The results of these source tests shall be submitted to the district for approval no later than 60 days from the test date.

The owner/operator of each S-4227, S-4228, and S-4229 shall use oxygen enrichment (up to a maximum of 50% oxygen enrichment) at all times of operation above the following throughput levels of each SRU: S-4227 and S-4228 at 150 long tons per day, and S-4229 at 300 long tons per day. The owner/operator of each SRU may use oxygen enrichment at lower throughput levels.

88) The Owner/Operator of A-120, A-121, and A-122 shall achieve a minimum abatement efficiency of 90% by weight of both PM10 and Sulfuric Acid Mist. The owner/operator shall demonstrate continuous compliance with this abatement efficiency through the use of the following parametric monitoring parameters (Basis: Offsets, cumulative increase):

The owner/operator of A-120, A-121, and A-122 shall not exceed any of the following PM10 and Sulfuric Acid Mist limits as specified in parts 84, 90, 92, and 95 from each Wet ESP (A-120, A-121, and A-122):

The owner/operator of A-120 shall not exceed:

a. PM10 Limit 0.504 lb averaged over one hour as demonstrated using District approved source test method.

The owner/operator of A-121 shall not exceed:

b. PM10 Limit 0.450 lb averaged over one hour as demonstrated using District approved source test method.

The owner/operator of A-122 shall not exceed:

c. PM10 Limit 0.884 lb averaged over one hour as demonstrated using District approved source test method.

The owner/operator of Wet Electrostatic Precipitators (A-120, A-121, and A-122) shall abate at all times of operation of the SRUs (S-4227, S-4228, and S-4229) respectively with the properly maintained, properly operated, fully charged Wet Electrostatic Precipitators (A-120, A-121, and A-122). This shall include the following:

1). Continuously monitor and record the inlet water flow rate (in gallons per minute) to each scrubber and maintain a minimum inlet water flow rate of [TBD] in (gallons per minute).

2). Monitor and record Transformer Rectifier (TR) set secondary current readings on a daily basis.

3). Install a temperature monitor and recorder at the inlet of the Wet ESP. The inlet temperature of each Wet ESP shall be maintained at a maximum of [TBD] degrees F. An alarm shall be set in such a manner to indicate temperature excursions above [90% of TBD] degrees F.

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4). The secondary current of any TR set shall not be less than [TBD] milliamps averaged over any three hour period, or the secondary current of up to two TR sets may be less than [TBD] milliamps, averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above [TBD] milliamps, averaged over any three hour period. An alarm shall be set in such a manner to indicate secondary current excursions below [TBD] milliamps.

The parametric conditions in this part may be re-evaluated or adjusted, if District-approved source test data demonstrate to the satisfaction of the APCO that alternate parametric conditions are necessary for or capable of maintaining compliance with an emission limit of PM10 and/or Sulfuric Acid Mist as determined by District-approved source test methods.

The annual PM10 and Sulfuric Acid Mist emissions rate shall be determined by District approved source test methods. The owner/operator shall hire a third-party source test firm to perform at least four source tests per calendar year to determine the hourly PM10 and Sulfuric Acid Mist emission rates. The results of each quarterly source test shall be used to estimate the emissions for that calendar quarter. The four quarterly mass emissions estimates shall be added together to determine compliance with the annual emissions limits of these permit conditions. Each source test shall be performed in accordance with the District's Manual of Procedures. The owner/operator shall notify the District Source Test Manager and the Engineering Division at least seven (7) days prior to the test, to provide the District staff the option of observing the test. Within 60 days of the test date, the owner/operator shall submit a comprehensive report of the test results to the District's Source Test Manager for review and approval.

The owner/operator of S-4227, S-4228, and S-4229 shall conduct at least one source test every quarter in order to demonstrate compliance with all emissions limits not covered by CEMs. If this source test window partially or completely overlaps a plant shutdown and its 7-day startup period, the owner/operator shall conduct a source test within 14 days of the date of the plant or source startup.

The Owner/Operator Of S-4227, S-4228, and S-4229 shall continue to conduct quarterly source tests for at least two years after the date of issuance of the Permit to Operate for the last Modernization Project source. After the quarterly source tests specified above in this part, the Owner/Operator may submit an application for District approval to request to change the frequency to semi-annual or bi-annual provided that all District-approved source test results demonstrate that the emissions are less than 90% of any PM10 or sulfuric acid mist emissions limit.

The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 to 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the source test date. [Basis: Periodic Monitoring, cumulative increase, Regulation 1-523]

In order to demonstrate compliance with this part and part 84, 90, 92, and 95, the owner/operator shall maintain in a District-approved log, updated monthly, all of the following:

- 1). PM10 and Sulfuric Acid Mist emissions source test results, lb/hour.
- 2). Daily inlet water flowrate inspection records indicating working condition and repairs.
- 3). pH of water system
- 4). Daily ESP Transformer Rectifier (TR) set secondary current readings; and
- 5). Wet ESP inlet temperature records.

These records shall be retained for at least five years from date of entry and be made available to the BAAQMD upon request.

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- a) (Placeholder) Install a temperature monitor and recorder at the inlets of each Wet ESP (A-120, A-121, and A-122). The inlet temperature of each Wet ESP shall be maintained at a maximum of 170 degrees F/TBD degrees Fahrenheit averaged over any one hour period. An alarm shall be set in such a manner as to indicate temperature excursions above 153 F.)
- b) (Placeholder) Monitoring and recordkeeping provisions to insure appropriate electric field strength.
- c) (Placeholder) Condition(s) to insure proper water flow.
- d) (Placeholder) pH of water system.

For each above "placeholder" or "TBD", the owner/operator shall provide the above vendor-supplied information within 60 days of the selection of the vendor.

89) The Owner/Operator of S-4227, S-4228, and S-4229 shall maintain a District-approved daily log with monthly summaries of all sulfur production, acid gas feedrate (in MMSCF/day), maximum hourly flow rate (in scfm), all CEM data, daily H2S data and source test data at each S-4227, S-4228, and S-4229 to demonstrate compliance with parts 82, 84, 90, 92, and 95 and all Wet ESP parametric measurements to demonstrate compliance with parts 84, 90, 92, and 95. This log shall be kept on site for 5 years from the date of entry and be made available to District staff upon request.

90) The Owner/Operator of the S-4227, S-4228, and S-4229 Claus Plants (SRUs), S-4436, S-4437 and S-4438 (stack heaters), A-20, A-21, and A-22 (Tail Gas Units), and A-120, A-121, A-122 (Wet ESP's) shall not exceed the following combined emission limits in any consecutive 12-month period:

[Basis: Cumulative Increase, Offsets]

<u>Pollutant</u>	<u>Annual (tons/yr)</u>
<u>NOx</u>	<u>62.33</u>
<u>CO</u>	<u>113.80</u>
<u>SO2</u>	<u>86.70</u>
<u>PM10</u>	<u>5.34</u>
<u>POC</u>	<u>2.84</u>

H2S 4.0 ppm, dry, corrected to 0% O2, averaging time based on District-approved source test Method
Sulfuric Acid Mist 1.856 lb/hour

The Owner/Operator of the S-4227, S-4228, and S-4229 shall each demonstrate compliance with parts 84, 90, 92, and 95 using District-approved CEMs Systems for NOx, CO, SO2, O2, and either exhaust gas flow meters (S-4229) or duct flow meters combined with a District approved flow calculation method and using District approved source testing and/or District-approved flow measurement and/or calculation method in order to demonstrate compliance with parts 84, 90, 92, and 95 for PM10, POC, H2S, and Sulfuric Acid Mist.

[Basis: Monitoring]

91) The Owner/Operator of the S-4227, S-4228, and S-4229 Claus Plants (SRUs) and S-4436, S-4437 and S-4438 (stack heaters) shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder at each emission point (P-0151, P-0152, and P-0153) for NOx, CO, SO2, O2, and District-approved exhaust gas flow rate (in scfm). [Basis: BACT, offsets, Rule 2-5]

a. The Owner/Operator of the S-4227, S-4228, and S-4229 Claus Plants (SRUs) and S-4436, S-4437 and S-4438 (stack heaters) shall conduct District-approved monitoring and recording on a monthly basis at each emission point (P-0151, P-0152, and P-0153) for hydrogen sulfide (H2S) (in ppmv and lb/day) in order to demonstrate compliance with the concentration and mass emission limits specified in parts 84, 90, 92, and 95. If the monthly monitoring window partially or completely overlaps a plant shutdown and its 7-day startup

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period, the owner/operator shall conduct monitoring within 14 days of the date of the plant or source startup. [Basis: BACT, Rule 2-5]

92) The Owner/Operator of the S-4227, S-4228, and S-4229 Claus Plants (SRUs) and S-4436, S-4437 and S-4438 (stack heaters) shall not exceed the following emission limits at each emission point (P-0151, P-0152, and P-0153) except during startup and shutdown:

The Owner/Operator of the S-4227 Claus Plant (SRU) and S-4436, (stack heater) shall not exceed the following emission limits in any consecutive 12 month period for the tons/year limits, any calendar day for the daily limits and the averaging time as specified for the remaining limits:

Pollutant	(tons/yr)	(lb/day)
NOx	15.38	
CO	28.08	222.72
SO2	21.39	
PM10	1.44	9.8
POC	0.76	9.8

H2S 4.0 ppm averaging time based on District-approved source test method
Sulfuric Acid Mist 0.673 lb/hour

The Owner/Operator of S-4227 shall not exceed a maximum exhaust gas flowrate of 15,000 dry scfm, corrected to 0% O2, averaged over any one hour period. [Basis: Rule 2-5, BACT]

The Owner/Operator of the S-4228 Claus Plant (SRU) and S-4437, (stack heater) shall not exceed the following emission limits in any consecutive 12 month period for the tons/year limits, any calendar day for the daily limits and the averaging time as specified for the remaining limits:

Pollutant	Annual (tons/yr)	(lb/day)
NOx	15.38	
CO	28.08	173.52
SO2	21.39	
PM10	1.30	9.8
POC	0.76	9.8

H2S 4.0 ppm averaging time based on District-approved source test Method
Sulfuric Acid Mist 0.425 lb/hour

The Owner/Operator of S-4228 shall not exceed a maximum exhaust gas flowrate of 15,000 dry scfm, corrected to 0% O2, averaged over any one hour period. [Basis: Rule 2-5, BACT]

The Owner/Operator of the S-4229 Claus Plant (SRU) and S-4438, (stack heater) shall not exceed the following emission limits in any consecutive 12 month period for the tons/year limits, any calendar day for the daily limits and the averaging time as specified for the remaining limits:

Pollutant	Annual (tons/yr)	(lb/day)
NOx	31.57	
CO	57.64	325.44
SO2	43.92	
PM10	2.60	9.8

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POC _____ 1.32 _____ 9.8

H2S 4.0 ppm averaging time based on District-approved source test Method
Sulfuric Acid Mist _____ 0.758 lb/hour

The Owner/Operator of S-4229 shall not exceed a maximum exhaust gas flowrate of 30,000 dry scfm, corrected to 0% O2, averaged over any one hour period. [Basis: Rule 2-5, BACT]

[Basis: BACT, Cumulative Increase, Offsets]

93) The Owner/Operator of S-4227, S-4228, and S-4229 shall conduct a District-approved source test within 120 days of the date of initial startup of each unit to determine initial compliance with the limits in parts 84, 90, 92, and 95 for POC, H2S, PM10, Sulfuric Acid Mist, and ammonia and including the District-approved exhaust gas flowrates (measurement or combined measurement and calculation). The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 to 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test. [Basis: Cumulative Increase, Offsets, BACT, Regulation 7]

94) After the initial source test specified in part 93 has been completed, the Owner/Operator of S-4227, S-4228, and S-4229 shall conduct quarterly District approved source tests to demonstrate compliance with the limits in parts 84, 90, 92, and 95 for POC, H2S, PM10, and Sulfuric Acid Mist, and District-approved exhaust gas flowrates (measurement or combined measurement and calculation). The Owner/Operator of S-4227, S-4228, and S-4229 shall continue to conduct quarterly source tests for at least two years after the date of issuance of the Permit to Operate for the last Modernization Project source (excluding the Power Plant Replacement Project). After the quarterly source tests specified above in this part, the Owner/Operator may submit an application for District approval to request to change the frequency to semi-annual source testing. The owner/operator of S-4227, 4228, and 4229 shall conduct the quarterly emissions source tests at least 2 months apart and not more than 4 months apart. The owner/operator may be required by the APCO to conduct more frequent source tests if source test results indicate emissions are within 90% of any emissions limit associated with any of these sources or exceeding any emissions limits associated with any of these sources. The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109-to 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test. [Basis: Periodic Monitoring, cumulative increase]

95) The Owner/Operator of S-4227, S-4228, and S-4229 shall not exceed the following emission limits: [Basis: Toxics]

S-4227 SRU 1
Sulfuric Acid Mist (stack) _____ 0.673 lb/hr
H2S (stack) _____ 0.323 lb/hr

S-4228 SRU 2
Sulfuric Acid Mist (stack) _____ 0.425 lb/hr
H2S (stack) _____ 0.323 lb/hr

S-4229 SRU 3
Sulfuric Acid Mist (stack) _____ 0.758 lb/hr
H2S (stack) _____ 0.646 lb/hr

H2S (fugitive) from Modernization Project components at S-4227, S-4228, and S-4229

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H2S (fugitive) 0.0994 lb/hr

96) Deleted.

FUEL GAS SYSTEM

97) The Owner/Operator of the three Fuel Gas Mix Drums V-475, V-870, and V-701 shall install and operate a District-approved continuous gaseous fuel monitors and recorder(s) in order to demonstrate compliance with both the H2S limit and total sulfur limit of the refinery fuel gas at the outlets of each of the three fuel gas mix drums. The Owner/Operator shall calculate and record the following for each fuel gas mix drum of the refinery fuel gas system in order to demonstrate compliance with parts 98:

a) Each calendar day, the Owner/Operator of the three Refinery Fuel Gas Mix Drums shall record the following for each refinery fuel gas mix drum: daily fuel gas flow as measured by a District-approved fuel gas flowmeter at each drum, daily averaged calendar day H2S content (in ppmv) of the refinery fuel gas, any consecutive 365 day average of H2S concentration (ppmv), hourly maximum total sulfur content (in ppmv), daily averaged calendar day total sulfur content (in ppmv), any consecutive 365 day average of total sulfur content (in ppmv), and daily averaged HHV heat capacity as Btu/scf;

b) The owner/operator of the three refinery fuel gas mix drums shall calculate using District-approved methodology the total sulfur dioxide emissions in tons per year from the refinery fuel gas system for each calendar day with monthly totals. The owner/operator shall record the sulfur dioxide emissions in a District-approved log for at least five years from the date of entry and shall be made available to District staff upon request.

[Basis: BACT, cumulative increase, offsets, Regulations 1-522, 1-523]

98) The Owner/Operator of the three Refinery Fuel Gas Mix Drums shall not exceed the following limits at the outlet of each of the refinery fuel gas mix drums [Basis: BACT, cumulative increase, offsets, Regulations 1-522, 1-523]:

a) 50 ppmv H2S (at each drum), averaged over a calendar day;

b) 18.83 ppmv H2S (flow-weighted average of all three drums), averaged over any consecutive 12 month period;

c) 100 ppmv total sulfur concentration (at each drum), averaged over a calendar day;

d) 200 ppmv total sulfur (at each drum), averaged over any hour;

e) 30.85 ppmv total sulfur concentration (flow-weighted average of all three drums) any consecutive 12-month period.

f) The owner/operator of the three Refinery Fuel Gas Mix Drums shall not exceed a combined total of 49.09 tons per year SO₂ from all refinery sources fired on refinery fuel gas (as measured at the outlet of each of the three drums using total sulfur in ppmv and District-approved measured fuel flow of each drum assuming 100% conversion of total sulfur to SO₂) using a District-approved calculation method.

99) DELETED

MODERNIZATION PROJECT COMMISSIONING PERIOD

100) The owner/operator of all sources of the Modernization Project shall comply with Parts 100, 103, 104 through 108 during the Modernization Project Commissioning Period. The Modernization Project Commissioning Period is defined as the period that begins when the first new or modified Modernization

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Project source commences operations, and terminates 180 calendar days after the last Modernization Project new or modified source commences operations.

[Basis: Cumulative Increase, PSD]

101) DELETED

102) DELETED

103) During the Modernization Project Commissioning Period, the Owner/Operator shall operate the first existing Hydrogen Train to be shut down (either S-4250 Train A or S-4250 Train B), its associated reaction furnace (either S-4170 or S-4171), the first new Hydrogen Plant (Either S-4449 or S-4450), and its associated reaction furnace (S-4471 or S-4472) simultaneously for up to a maximum of 90 days as long as the combined production rate of all operating hydrogen manufacturing plants remains below 181.1 million standard cubic feet per day.

The Owner/Operator shall operate the other existing Hydrogen Train, its associated reaction furnace, the other new Hydrogen Plant, and its reaction furnace simultaneously for up to a maximum of 90 days as long as the combined production rate of all operating hydrogen manufacturing plants remains below 181.1 million standard cubic feet per day.

[Basis: Cumulative Increase, Rule 2-2-410, PSD]

104) The Owner/Operator of S-4227, S-4228, and S-4229 Claus Plants (SRUs) shall not exceed any of the following total sulfur production levels until both of the following are met:

a) At least one of the new hydrogen plant trains (S-4471 or S-4472) has started to use refinery fuel gas or process gas as a feedstock, and

b) At least one of the SRUs has been modified or has completed its modification to satisfy BACT per this Authority to Construct.

• S-4227: 189.6 long tons in any calendar day and 150 long tons per day averaged over any consecutive 12-month period.

• S-4228: 179.0 long tons in any calendar day and 150 long tons per day averaged over any consecutive 12-month period.

• S-4229: 336.0 long tons in any calendar day and 292.7 long tons per day averaged over any consecutive 12-month period.

After each of the SRUs (S-4227, S-4228, and S-4229) is modified, the Owner/Operator shall operate only the modified SRU up to the maximum new total sulfur production limit specified in Part 87.

[Basis: Cumulative Increase, PSD]

105) DELETED

106) The owner/operator of all sources covered by this permit application (A/N 12842) shall determine the Modernization Project net emissions increase for PSD purposes using the District-approved calculation method specified in the federal PSD regulations at 40 CFR 52.21. The owner/operator shall ensure that the Modernization Project net emissions increase does not exceed any of the following PSD net emissions increase thresholds:

<u>• NO_x</u>	<u>40 tons/year</u>
<u>• CO</u>	<u>100 tons/year</u>
<u>• SO_x</u>	<u>40 tons/year</u>
<u>• PM₁₀</u>	<u>15 tons/year</u>
<u>• Hydrogen Sulfide</u>	<u>10 tons/year</u>

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- Total Reduced Sulfur 10 tons/year
- Reduced Sulfur Compounds 10 tons/year
- Sulfuric Acid Mist 7 tons/year

[Basis: Cumulative Increase, Rule 2-2-306, federal PSD regulations at 40 CFR 52.21]

107) The Owner/Operator of the sources listed in this part shall use the following District-approved data in order to demonstrate that the total Modernization Project net emissions increases do not exceed the PSD thresholds listed in part 106:

a) NOx and O2: District-approved continuous emissions monitors (CEMs) data and District-approved flow rate data for S-4471, S-4472, S-4436/S-4227, S-4437/S-4228, and S-4438/S-4229, or the permitted emissions rate, whichever is greater. Part 27 emission factor for S-6021 multiplied by flare gas flow.

b) CO and O2: District-approved continuous emissions monitors (CEMs) data and District-approved flow rate data for S-4471, S-4472, S-4436/S-4227, S-4437/S-4228, and S-4438/S-4229, or the permitted emissions rate, whichever is greater. Part 27 emission factor for S-6021 multiplied by flare gas flow.

c) SO2 (as SO2) and O2: District-approved continuous emissions monitors (CEMs) data and District-approved flow rate data for S-4436/S-4227, S-4437/S-4228, and S-4438/S-4229, or the permitted emissions rate, whichever is greater. Calculated per part 9c for S-4471 and S-4472. Part 27 emission calculation method (total sulfur in the vent gas multiplied by the flare gas flow assuming 100% conversion of TS to SO2 plus the flare pilot TS to SO2).

d) PM10: The owner/operator shall perform District-approved source tests for S-4471, S-4472, S-4436/S-4227, S-4437/S-4228, and S-4438/S-4229 under variable load conditions in order to demonstrate compliance with the permitted emissions rates and levels. The source test procedures including loads run per source shall be pre-approved by the District in accordance with the applicable parts of 109 through 117. In addition, for S-6021, PM10 emissions shall be calculated using the Part 27 emissions factors multiplied by District-approved flare gas flow

e) For Sulfuric Acid Mist, Hydrogen Sulfide, Total Sulfur, the Modernization Project will result in a net emission reductions from pre-project baseline. [Basis: Cumulative Increase, PSD]

108) The Owner/Operator of all of the Modernization Project sources shall submit a report to the District no later than 30 days from the end of each calendar month that demonstrates that the higher of either the permitted or actual total Modernization Project source net emissions increases do not exceed the PSD thresholds specified in part 106.

[Basis: Reporting Requirements, PSD]

GENERAL RECORDKEEPING CONDITIONS

109) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall maintain a District-approved log that contains all CEM and source test records and all records of fuel usage rates, fuel types, quantity of each type of fuel used at each source, heat content HHV of fuel (in Btu/scf), TS levels in fuels used, hours of operation (including each mode (dryout/warmup, commissioning, startup, shutdown), District-approved flow rate used in emissions estimates (scf/hour), hourly, daily and annual emissions estimates, and other records as specified by the APCO for the last 5 years of operation to verify compliance with Modernization Project permit conditions. [Basis: Recordkeeping]

110) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall maintain the following in a District-approved log and shall keep these records on site for a period of at least 5 years from date of entry and make the records available to District staff upon request (note the Hydrogen Plant

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Replacement Project is covered by similar conditions in parts 37 and 38). [Basis: Regulation 2-1-301, Recordkeeping]

In order to demonstrate compliance with part 77, the Owner/Operator of S-4454 #6H₂S Plant Recycle Amine Regenerator shall maintain calendar day, monthly, and consecutive 12-month total H₂S produced, in MMSCF, for the S-4454 Plant/Recycle Amine Regenerator;

In order to demonstrate compliance with part 80, the Owner/Operator of S-4253 shall maintain calendar day, monthly, and consecutive 12-month total material feed throughputs for the S-4253 TKC/FCC Feed Hydrotreater; and

DELETED (Superseded by permit condition 25814)
(Sulfur Loading Rack S-4490 was issued a separate ATC under Application 25793 in June 2014 and its operation is governed by permit condition 25814)

In order to demonstrate compliance with parts 81 through 95, the Owner/Operator of each Sulfur Recovery Units S-4227 through S-4229 shall maintain calendar day, monthly, and consecutive 12-month total material throughputs (in long tons) for each SRU, acid gas feed rates (MMscf), CEM data, H₂S emissions, PM₁₀ Sulfuric Acid Mist, records for work performed in part 86, source test results, combined annual emissions for part 90, the individual emissions limits for part 92, sulfuric acid mist from each stack for part 95, and fugitive H₂S for part 95 for the S-4227 through S-4229

111) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall submit a quarterly report to both the Compliance and Enforcement Division and Engineering Division no later than 60 days following the end of each calendar quarter addressing compliance with parts 9, 90, 92, and 95. Each quarterly report shall include for each source the source test dates in which limits of these conditions were exceeded. The District shall use this information to determine any periods of non-compliance with the emission limits.[Basis: Reporting Requirements]

112) In the absence of any specific permit condition, the owner/operator of all sources covered by this permit application (A/N 12842) shall maintain adequate records in order to demonstrate compliance with all parts of these conditions.

GENERAL SOURCE TESTING CONDITIONS

113) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall provide District pre-approved stack sampling ports and platforms, the locations of which shall be subject to the pre-approval of the District. The owner/operator shall conduct only District pre-approved source tests using District pre-approved methods for all source tests to be approved by the District.
[Basis: Regulation 1-501]

114) Upon successful completion of the requirements of parts 109 through 111, the owner/operator of sources subject to parts 19, 90, 91, and 92 shall satisfy the TAC source test requirements by compliance with part 112. [Basis: Rule 2-5]

TAC/HAP SOURCE TESTING CONDITIONS

115) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall conduct initial District-approved source tests to demonstrate compliance with the TAC mass emissions rates (including a full metals test) specified in parts 19, (not including benzene fugitives), and 95 (not including H₂S

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fugitives). Each initial test shall be taken no later than 120 days from the date of initial startup of each source. The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 to 117. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test. [Basis: Rule 2-5, Source Tests]

116) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall conduct a District-approved source test annually following completion of each initial source test in part 115 to demonstrate compliance with the emission limits (including a full metals test) specified in parts 19, (not including benzene fugitives), and 95 (not including H₂S fugitives). The owner/operator may be required by the APCO to conduct more frequent source tests if source test results indicate emissions are within 90% or exceeds any emissions or concentrations limits or any emissions limit associated with any of these sources. The Owner/Operator shall conduct the District approved source tests in accordance with the applicable parts of 109 to 117. The owner/operator shall conduct the annual emissions source tests at least 9 months apart. The owner/operator shall use maximum permitted annual throughput rates and the source test results in order to demonstrate compliance with annual limits, and maximum hourly throughput rates and the source test results in order to demonstrate compliance with hourly limits subject to District approval. The Owner/Operator shall submit the source test results to the District staff no later than 60 days from the date of the source test. Should any of these values exceed a part 19 (not including benzene fugitives), or 95 (not including H₂S fugitives) emission limit, the current health risk screening assessment (HRSA) on file with the District for the Modernization Project demonstrating compliance that each source remains less than or equal to 0.20 chronic non-cancer hazard index and that each source's cancer risk remains less than or equal to 1.0 in a million, the owner/operator shall re-run the HRSA subject to District approval in order to determine compliance that each source remains less than or equal to 0.20 chronic non-cancer hazard index and that each source's cancer risk remains less than or equal to 1.0 in a million.

Within 60 calendar days from the date of the source test results, the owner/operator shall submit the results of the re-run HRSA to the District for approval. If the results of the re-run HRSA demonstrate non-compliance with the originally approved Rule 2-5 HRSA (which did not require TBACT and that each source remains less than or equal to 0.20 chronic non-cancer hazard index and that each source's cancer risk remains less than or equal to 1.0 in a million) on file at the District for the Modernization Project, then the owner/operator shall be considered to be in violation of both Rule 2-5 and 2-1-307 back to the date of the test.

If the results of the re-run HRSA demonstrate compliance that each source remains less than or equal to 0.20 chronic non-cancer hazard index and that each source's cancer risk remains less than or equal to 1.0 in a million, then the owner/operator shall submit a permit application to the District in order to change the TAC emission limit permit conditions, within 30 calendar days from the date of the re-run submittal.

[Basis: Rule 2-5, Source Tests]

117) The Owner/Operator of all sources covered by this permit application (A/N 12842) shall submit source test procedures to the District's Source Test Section at least 14 calendar days prior to conducting any source test required by these conditions. The Owner/Operator shall comply with all applicable testing requirements for continuous emissions monitors. The Owner/Operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [Basis: cumulative increase, Rule 2-5]

118) Within 60-days after the issuance of the first building permit for the Hydrogen Plant Replacement following approval of the Conditional Use Permit for the Chevron Modernization Project (PLN11-089), the Owner/Operator of all sources covered by this permit application (# 12842) shall file a complete application with the BAAQMD to cause the Facility's Title V permit to be amended to reduce the maximum annual

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permitted throughout limit for the Solvent Deasphalting (SDA) plant (S-4251) from 56,000 barrels per day to 50,000 barrels per day on an annual average basis. [Basis: Condition B.2 in City of Richmond Conditional Use Permit Resolution Number 67-14 dated July 29, 2014]

S-6021/A-6021 FLARE SUPPLEMENTAL NATURAL GAS CONDITIONS

119. The owner/operator shall use only natural gas as a supplemental gas at flare S-6021/A-6021 in order to comply with the minimum Net Heating Value at combustion zone (NHVcz) of 270 Btu/scf, or a value approved by US-EPA. (Basis: NESHAP 40 CFR 63.670(e) - effective January 30, 2019 or the date of the APCO's approval of the facility's time extension request per 40 CFR 63.6(i)(6))

120. The owner/operator of the S-6021/A-6021 flare shall comply with all applicable requirements in 40 CFR 63.670 to ensure the S-6021/A-6021 flare operates in a manner that ensures that the S-6021/A-6021 flare achieves a hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis. (Basis: NESHAP 40 CFR 63.670, Regulation 2-1-403)

121. The owner/operator shall limit the use of natural gas as supplemental gas to 97.8 MMscf in any consecutive 12-month period. Supplemental gas is the combined total of sweep and assist gas. (Basis: Regulation 2-1-320, 2-1-403)

122. To demonstrate compliance with part 121 of this permit condition, the owner/operator shall install a dedicated gas flow rate monitor for flare S-6021/A-6021 to measure the supplemental gas usage. (Basis: Regulation 2-1-403)

123. Where applicable, the owner/operator shall update and maintain the Flare Minimization Plan (FMP) as required by Regulation 12-12-404. (Basis: Regulation 12, Rule 12)

124. The owner/operator shall install and operate a continuous parametric monitoring system (CPMS) along with a CPMS monitoring plan as required by and consistent with 40 CFR 63.671(b). (Basis: NESHAP 40 CFR 63.671, Regulation 1-523)

125. The owner/operator of S-6021/A-6021 shall maintain all records and reports required by this permit condition in a District-approved log. The following records shall be kept on site and shall be made available for District inspection for a period of at least 5 years from the date on which a record is made. (Basis: Cumulative Increase, NESHAP 40 CFR 63.670(e), Regulation 2-1-403)

a. Total daily flow of supplemental gas and vent gas to the flare, summarized on a consecutive 12-month period basis.

b. Daily net heating value of the flare vent gas (NHVvg) and calculation of net heating value in the combustion zone (NHVcz).

c. Daily flare steam to vent gas ratio for S-6021/A-6021.

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Condition 24285

P10 A/N 19074 S-7539

1. The owner/operator of S-7539 shall abate S- 7539 (emergency standby engine) by the properly maintained and operated A-7539 (diesel particulate filter) during all periods of operation. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.6(a)(3), title 17, CA Code of Regulations]
2. The owner/operator of S-7539 shall install and maintain a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached at S-7539. The owner/operator shall maintain records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached in a District-approved log for at least 60 months from the date of entry. [Basis: "ATCM for Stationary Compression Ignition Engines" Section 93115.10(e), title 17, CA Code of Regulations; 40 CFR 60.4214(c)]
3. The owner/operator of S-7539 shall use only ultra low sulfur diesel fuel in the S-7539 engine. ([Basis:](#) cumulative increase)

Condition 24294 for source S-9304

1. The Healy EVR Phase II Vapor Recovery System without ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order VR-201. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.
2. Only CARB-certified EVR Phase I vapor recovery systems shall be used in conjunction with the Healy EVR Phase II Vapor Recovery System without ISD.

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3. The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.
 - a. Monthly throughput of gasoline pumped, summarized on an annual basis
 - b. A record of all testing and maintenance as required by E.O. VR-201, Exhibit 2. The records shall include the maintenance or test date, repair date to correct test failure, maintenance or test performed, affiliation, telephone number, name and Certified Technician Identification Number of individual conducting maintenance or test.
4. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight as defined in District Manual of Procedures, Volume IV, ST- 30.
5. Start-up notification: applicant must contact the assigned Permit Engineer, listed in the correspondence section of this letter, by phone, by fax [(415) 749- 4949], or in writing at least three days before the initial operation of the equipment is to take place. Operation includes any start-up of the source for testing or other purposes. Operation of equipment without notification being submitted to the District, may result in enforcement action. Please do not send start-up notifications to the Air Pollution Control Officer.
6. The following performance test shall be successfully conducted at least ten (10) days, but no more than thirty (30) days after start-up. For the purpose of compliance with this Condition, all tests shall be conducted after back-filling, paving, and installation of all required Phase I and Phase II components:
 - a. Vapor-to-Liquid Test in accordance with E. O. VR-201, Exhibit 5. The vapor-to-liquid ratio shall be between 0.95 and 1.15 when measured at dispensing rates between 6 and 10 gallons per minute. NOTE: For start up testing ONLY, two gallons of liquid gasoline must be introduced down each dispenser riser prior to the test.
 - b. Healy Clean Air Separator Static Pressure Performance test in accordance with E.O. VR-201, Ex. 4.
 - c. Static Pressure Performance Test, in accordance with CARB Test Procedure TP-201.3 (3/17/99). If the tank size is 500 gallons or less, the test shall be performed on an empty tank.
 - d. Nozzle Bag Test on all nozzles in accordance with E.O. VR-201, Ex. 7.
7. The Healy EVR Phase II system without ISD shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order VR- 201. The owner or operator shall conduct and pass a Static Pressure Decay Test, a Vapor-to-Liquid Test, a Healy Clean Air Separator Static Pressure Performance test and Nozzle Bag Tests on all nozzles at least once in each 12-month period following successful completion of start-up testing. Tests shall be conducted using the above referenced test methods.
8. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).

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9. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be twenty (20) feet. The maximum allowable length of hose which may be in contact with the top of the island block or the ground shall be six (6) inches.
10. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the trigger at the highest setting. Compliance with this condition shall be verified with only one nozzle in operation per product supply pump.
11. The Healy Clean Air Separator (HCAS) shall be located no more than 100 feet from the tank vent lines. The line connecting the HCAS shall slope down towards the vent lines at a minimum of 1/8" per linear foot. The Air Breather Assembly shall be a minimum of 12 feet above grade.
12. All ball valves shall be positioned for normal operation as shown in E.O. VR-201, Ex. 2 except when necessary for testing and maintenance.
13. The Healy EVR Phase II Vapor Recovery System without ISD shall be installed, operated, and maintained in accordance with the System Operating Manual approved by CARB.
14. No dispensing shall be allowed when a vapor collection pump is disabled for maintenance or for any other reason. Only those nozzles affected by the disabled vapor collection pump are subject to this condition.
15. Regardless of proposed work, all vapor return and vent lines shall be a minimum nominal internal diameter of 2 inches from the dispensers or vent stacks to the first manifold. All lines after the first manifold and back to the underground storage tanks shall have a minimum internal diameter of 3 inches. All lines shall slope down towards the lowest octane tank at a minimum of 1/8 inch per linear foot. Condensate traps or knock-out pots are prohibited.
16. For projects involving addition, replacement, or removal of more than 50% of the vapor return piping, the vapor return lines shall be manifolded below grade at the tanks. This is in addition to any manifolds at the dispensers or on the vent lines.
17. Each vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. Plumbing may be manifolded to reduce the number of relief valves needed. The District recommends that vents be manifolded to a single relief valve whenever possible.
18. The inner diameter of the connector between the dispenser and the vapor return piping riser shall be 1".
19. The Healy EVR Phase II Vapor Recovery System without ISD shall be retrofitted with ISD controls as required by CARB.

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Condition 24433

Application 14486

Plant 10

Sources 4252, 4253, ~~4348~~, 4435

1. For the sour gas pipeline upgrade project at or between S-4252, S-4253, ~~S-4348~~, and S-4435, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in Application 14486. Chevron provided the final count on Sept. 23, 2009. The owner/operator has been permitted to install the following fugitive components:
 - 219 valves in hydrocarbon service;
 - 6 pressure relief valves in hydrocarbon service;
 - 190 flanges in hydrocarbon service;
 - 279 connectors (not flanges) in hydrocarbon service;
 - 77 valves in stripped water service;
 - 2 pump in stripped water service;
 - 75 flanges in stripped water service;
 - 89 connectors (not flanges) in stripped water service.

[Basis: Cumulative Increase, offsets, Regulation 2-5]

2. Deleted. (Chevron has provided 2.248 TPY of POC offset credits.)
3. The Owner/Operator shall as part of the sour gas pipeline upgrade project install only the following types of valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO.

[Basis: BACT]

4. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves installed as part of the sour gas pipeline upgrade project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

[Basis: BACT, Regulation 8 Rule 18]

5. The Owner/Operator shall install graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO on all flanges or connectors installed as part of the sour gas pipeline upgrade project in hydrocarbon service.

[Basis: BACT]

6. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges and/or connectors installed as part of the sour gas pipeline upgrade project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

[Basis: BACT, Regulation 8 Rule 18]

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7. The Owner/Operator shall vent all pressure relief devices installed as part of the sour gas pipeline upgrade project in hydrocarbon service to a flare gas recovery system with a recovery and/or destruction efficiency of at least 98% by weight.
[Basis: BACT]
8. The Owner/Operator shall conduct inspections of fugitive components installed as part of the sour gas pipeline upgrade project in hydrocarbon service in accordance with the frequency below:
Valves: Quarterly
Connectors (Not Flanges): Biannual
Flanges: Biannual
[Basis: BACT, Regulation 8 Rule 18]
9. The Owner/Operator shall not exceed 1.732 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of the sour gas pipeline upgrade project in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 10. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the completion of the sour gas pipeline upgrade project or the District's issuance of the Permit to Operate for Application 14486.
[Basis: Cumulative Increase, offsets]
10. If none of the fugitive components installed as part of the sour gas pipeline upgrade project in hydrocarbon service are leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all sour gas pipeline upgrade project fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all sour gas pipeline upgrade project fugitive components in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 9.
[Basis: Cumulative Increase, BACT, Offsets]
11. The Owner/Operator shall keep a District-approved monthly log of fugitive component counts of the sour gas pipeline upgrade project, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per parts 9 and 10 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request. [Basis: cumulative increase, offsets, recordkeeping]

Condition 24452

Plant 10 Application 20760 [and 22277](#) S-4365

1. The owner/operator of S-4365 shall not exceed 15,000 gallons of Tri-Act 1825 in any consecutive 12 month period. ([basis: cumulative increase](#))
2. The owner/operator of S-4365 shall only store materials with a true vapor pressure not to exceed 0.5 psia. ([basis: 8-5-117 and cumulative increase](#))
3. The owner/operator of S-4365 may change formulations of chemicals described in this permit condition subject to district approval, provided that the owner/operator demonstrates that the source

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will not be modified per 2-1-234, there will be no increase in emissions, and that the emissions of toxic air contaminants will not equal or exceed the chronic trigger levels specified in Regulation 2-5. ([basis: Regulations 2-1-301, 2-5](#))

4. The owner/operator of S-4365 shall maintain a district approved monthly log of all material throughput and vapor pressure at S-4365. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. ([basis: record keeping](#))

Condition 24604

Plant 10 Application 22277

S-4366 - S-4370

1. The owner/operator of S-4366 shall not exceed a total of 10,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 month period. ([basis: cumulative -increase](#))
2. The owner/operator of S-4367 shall not exceed a total of 5000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 month period. ([basis: cumulative increasecum ine](#))
3. The owner/operator of S-4368 shall not exceed a total of 5000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 month period. ([basis: cumulative increasecum ine](#))
4. The owner/operator of S-4369 shall not exceed a total of 15,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 month period. ([basis: cumulative increasecum ine](#))
5. The owner/operator of S-4370 shall not exceed a total of 4000 gallons of Custamine in any consecutive 12 month period. ([basis: cumulative increasecum ine](#))
6. The owner/operator of S-4366 through S-4370 shall only store materials with a true vapor pressure not to exceed 0.5 psia. ([basis: cumulative increase and Regulation 8-5-117 -and cum ine](#))
7. The owner/operator of S-4366 through S-4370 may change formulations of chemicals described in this permit condition subject to district approval, provided that the owner/operator demonstrates that the source will not be modified per 2-1-234, there will be no increase in emissions, and that the emissions of toxic air contaminants will not equal or exceed the chronic trigger levels specified in Regulation 2-5. ([basis: Regulations 2-1-301, 2-5](#))
8. The owner/operator S-4366 through S-4370 shall maintain a district approved monthly log of all material throughput and vapor pressure at each S-4366 through S-4370 in order to demonstrate compliance with parts 1 through 7. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. ([basis: record keeping](#))

Condition 24606

Plant 10 Application 21677

S-4372

- ~~1. The owner/operator of S-4372 shall not exceed a total of 5000 gallons of NALCO EC9085A in any consecutive 12 month period. (cum ine)~~
- ~~2. The owner/operator of S-4372 shall only store materials with a true vapor pressure not to exceed 0.5 psia. (8-5-117 and cum ine)~~

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3. ~~The owner/operator of S 4372 shall maintain a district approved monthly log of all material throughput and vapor pressure at S 4372 in order to demonstrate compliance with parts 1 through 2. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (record keeping)~~

Condition 25001

Plant 10 Application 21677

S-4373

1. ~~The owner/operator of S 4373 shall not exceed a total of 28,000 gallons of Corrosion inhibitor in any consecutive 12 month period. (cum inc)~~
2. ~~The owner/operator of S 4373 shall only store materials with a true vapor pressure not to exceed 0.5 psia. (8 5 117 and cum inc)~~
3. ~~The owner/operator of S 4373 may change the chemicals described in application 22916 subject to district approval, provided that the owner/operator demonstrates to the satisfaction of the district that the source will not be modified per 2 1 234, there will be no increase in emissions, and the emissions of toxic air contaminants will not equal or exceed any trigger levels specified in Regulation 2.5. (2 1 301, 2-5)~~
4. ~~The owner/operator of S 4373 shall maintain a district approved monthly log of all material throughput, the date in which throughput is added and the amount added, material safety and data sheets for material stored, and vapor pressure of material stored at S 4373 in order to demonstrate compliance with parts 1 through 3. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (record keeping)~~

S 4373 Chemical Tote Fugitive component conditions

For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136

5. ~~Within 30 days of District's issuance of the Permit to Operate for Application 22916, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:~~
- ~~28 valves in hydrocarbon service;~~
 - ~~18 flanges in hydrocarbon service;~~
 - ~~2 pumps in hydrocarbon service;~~
 - ~~98 connectors in hydrocarbon service;~~
 - ~~4 PSVs in hydrocarbon service. The final count and identification codes provided on 8/8/11. [Basis: Cumulative Increase, offsets, Regulation 2-5]~~
6. ~~If any of the fugitive component counts exceed the count stated in Part 5, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The Owner/Operator submitted 0.677 tons per year of POC offset credits corresponding to the fugitive component counts in Part 5. If the actual component count is less than the predicted, the total emissions in Part 11 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator~~

VI. Permit Conditions

~~in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO. [Basis: offsets]~~

~~7. The Owner/Operator of S 4373 shall install only the following types of components:~~

- ~~a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO.~~
- ~~b. For flanges in hydrocarbon service: graphitic based gaskets, metal ring joints, or equivalent technology as determined by the APCO.~~
- ~~c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent as determined by the APCO. [Basis: cumulative increase]~~

~~8. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, connectors, and/or PSVs installed as part of the application 22916 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8 18. [Basis: cumulative increase, Regulation 8 Rule 18]~~

~~9. The owner/operator of S 4373 fugitive components shall not exceed 500.0 ppm of TOC (measured as C1) at any of the pumps installed as part of application 22916 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8 18. [cumulative increase, offsets, Regulation 8 18]~~

~~10. The Owner/Operator shall conduct inspections of fugitive components installed as part of application 22916 in hydrocarbon service in accordance with the frequency below:~~

~~Pumps: Quarterly~~

~~Valves: Quarterly~~

~~PSV's: Quarterly~~

~~Flanges: Biannual~~

~~Connectors: Biannual [Basis: cumulative increase, Regulations 8 Rule 18]~~

~~11. The Owner/Operator shall not exceed 0.589 tons of POC emissions per consecutive 365 day period measured as C1 from for all fugitive components installed as part of application 22916 in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 12. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 22916. [Basis: Cumulative Increase, offsets]~~

~~12. If all of the fugitive components installed as part of application 22916 in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of application 22916 in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 11 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all S 4373 fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter in order to demonstrate compliance with part 11. This calculation shall continue each quarter until there is not a quarter containing a pegged leaker. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre approved by the District. The Owner/Operator shall include emissions estimates from all fugitive components included in part 5 (application 22916) in~~

VI. Permit Conditions

~~hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 11. [Basis: Cumulative Increase, Offsets]~~

~~13. The Owner/Operator shall keep a District approved monthly log of fugitive component counts installed as part of application 22916 and each component's unique permanent identification codes per part 5, monitoring results, and any annual emissions estimates required per parts 11 and 12 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request. [Basis: offsets, recordkeeping]~~

Condition 24671

Plant 10 Application 21980

S-4440

Jet Additives Project Fugitive Components For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136.

1. Within 30 days of District's issuance of the Permit to Operate for Application 21980 or the completion of the Jet Additives Project, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:

87 valves in hydrocarbon service;
87 flanges in hydrocarbon service;
165 connectors in hydrocarbon service;
4 pumps in hydrocarbon service;
Information submitted 10/22/10.

[Basis: Cumulative Increase, offsets, Regulation 2-5]

2. If any of the fugitive component counts exceed a count stated in Part 1, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. The Owner/Operator submitted 0.826 tons per year of POC offset credits corresponding to the component counts in Part 1. If the actual component count is less than the predicted, the total emissions in Part 2 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO.

[Basis: offsets] adjusted per 10/22/10 submittal

3. The Owner/Operator shall as part of the Jet Additives Project install only the following types of valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO. [Basis: BACT]

1. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves installed as part of the Jet Additives Project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

[Basis: BACT, Regulation 8 Rule 18]

5. The Owner/Operator shall install graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO on all flanges or connectors installed as part of the Jet Additives Project in hydrocarbon service. [Basis: BACT]

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6. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges and/or connectors installed as part of the Jet Additives Project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.[Basis: BACT, Regulation 8 Rule 18]
7. The owner/operator of Jet Additives Project fugitive components shall not exceed 100.0 ppm of TOC (measured as C1) at any of the pumps installed as part of the Jet Additives Project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: cumulative increase, offsets, Regulation 8-18]
8. The Owner/Operator shall conduct inspections of fugitive components installed as part of the Jet Additives Project in hydrocarbon service in accordance with the frequency below:
Pumps: Quarterly
Valves: Quarterly
Connectors (Not Flanges): Biannual
Flanges: Biannual

[Basis: BACT, Regulations 8 Rule 18]
9. The Owner/Operator shall not exceed 0.718 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of the Jet Additives Project in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 10. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the completion of the Jet Additives Project or the District's issuance of the Permit to Operate for Application 21980.[Basis: Cumulative Increase, offsets]
10. If all of the fugitive components installed as part of the Jet Additives Project in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of the Jet Additives Project in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 9 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all Jet Additives Project fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter. This calculation shall continue each quarter until there is not a quarter containing a pegged leaker. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all Jet Additives Project fugitive components in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 9.
[Basis: Cumulative Increase, BACT, Offsets]
11. The Owner/Operator shall keep a District-approved monthly log of fugitive component counts of the Jet Additives Project, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per parts 9 and 10 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request.[Basis: offsets, recordkeeping]

Condition 24921
Plant 10 Application 22634
S-6015

VI. Permit Conditions

1.
 - a. The owner/operator of S-6010 and/or S-6015 shall not exceed a total combined vent gas flow of 170,000 pounds per hour (averaged over any consecutive 60-minute period) during startups and shutdowns of any sources vented to S-6010 and/or S-6015. (Basis: cumulative increase, 12-12)
 - b. The owner/operator of S-6010 and/or S-6015 shall not exceed a total combined vent gas flow of 878,900 pounds per hour (averaged over any consecutive 60-minute period) during emergency malfunctions. (Basis: cumulative increase, 12-12).
2. The owner/operator of S-6015 shall only use S-6015 when S-6010 approaches [Note: “approaches” only applies for first year only and not to exceed to be established after first year.] its smokeless capacity of approximately 170,000 pounds per hour. A future enforceable limit for this part shall be determined in the first year of operation using the methodology presented below. For the first 12 months of operation after the issuance of this permit, the owner/operator of S-6015 shall maintain and determine the future enforceable water seal levels for S-6015 required in order to maximize S-6010 smokeless flaring operation prior to the start of flaring by S-6015 during all relief events including emergency malfunction, unit startup and shutdown. During the first 12-month period of initial operation, the water seal level for S-6015 shall only operate within the following District-approved range (30” - 70”). Within 30 days of the end of the 12-month period above, the owner/operator of S-6015 shall submit a permit application to the District for review/approval to establish the water seal levels of S-6015 as permit conditions that correspond to the maximization of the smokeless capacity of S-6010. The permit application shall include, at a minimum, the proposed water seal levels at S-6015 and the corresponding vent gas flow rates, along with the basis for the proposed values. [Note: If it is determined that S-6015 is needed for startup/shutdown more than represented in the application, then offsets may be required for the startup/shutdown emissions of S-6015.] (Basis: cumulative increase)
3. The total combined vent gas flow limit of S-6010 and S-6015 contained in Part 1b shall not apply during major power outages. For the purpose of this condition, a major power outage is defined as any time when both: (a) all of Chevron’s Cogens are non-operational and (b) power supply from the utility is also unavailable. During a major power outage, the owner/operator of S-6015 shall not exceed 878,900 pounds per hour of vent gas (averaged over any consecutive 60-minute period). (Basis: cumulative increase, Rule 12-12)
4. The owner/operator of S-6015 shall use S-6015 as the main Flare in the South Yard only when S-6010 is down for maintenance. Only during these periods of maintenance of S-6010 shall part 2 above not apply. (Basis: cumulative increase, Rule 12-12)
5. The owner/operator of S-6015 shall comply with a smokeless capacity for S-6015 of at least 240,000 pounds per hour of vent gas. (Basis: cumulative increase)
6. The owner/operator of S-6015 shall not exceed 500 standard cubic feet per hour of natural gas for flare pilots. The owner/operator of S-6015 shall not exceed 2000 standard cubic feet per hour of natural gas for combined flare pilot and purge. The owner/operator of S-6015 shall use only natural gas for pilot and purge. (Basis: cumulative increase)
7. The owner/operator of S-6015 shall use steam powered air aspiration at all times that vent gas is being sent to S-6015. (Basis: cumulative increase)
8. The owner/operator of S-6015 shall design S-6015 to maintain a hydrocarbon and carbon monoxide destruction efficiency of at least 98%, on a mass basis. (Basis: cumulative increase)
9. The owner/operator of S-6015 shall comply with the monitoring, recordkeeping and reporting requirements for the flare as required in Regulations 12-11 and/or 12-12. The owner/operator of S-6015

VI. Permit Conditions

shall properly install, maintain, and operate the following District-approved monitors; including, but not limited to: a vent gas flow meter (which measures volumetric and mass flow, velocity, molecular weight, temperature and pressure, and hydrocarbon emissions), total sulfur monitor, video monitoring, and a vent gas sampling system. The owner/operator shall maintain records of the lower heating value (BTU/scf) of the vented gas for each flaring event. The owner/operator of S-6015 shall properly install, maintain, and operate the pilot and purge monitoring as required in Sections 12-11-503 and 12-11-504 in order to demonstrate compliance with parts 6. (Basis: Rule 12-11 and recordkeeping)

10. The owner/operator of S-6015 shall maintain a district-approved monthly log in order to demonstrate compliance with all parts above, including, but not limited to dates of all process unit startups/shutdowns, malfunctions, major power outages, start and end dates of maintenance of S-6010, water seal levels at S-6015 and corresponding vent gas flow rates in pounds per hour. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (Basis: Rule 12-11 and recordkeeping)
11. The owner/operator of S-6015 shall operate the flare in accordance with the District-approved Flare Minimization Plan (FMP) for the Chevron Richmond Refinery. (Basis: Regulation 12-12)

S-6015 D&R Flare Project - Fugitive component conditions - For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136

12. Within 30 days of District's issuance of the Permit to Operate for Application 22634 or the Startup of S-6015, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:
 - 70 valves in hydrocarbon service;
 - 85 flanges in hydrocarbon service;
 - 55 connectors in hydrocarbon service;
 - 1 pumps in hydrocarbon service;
 - 3 PSVs in hydrocarbon service.

[Basis: Cumulative Increase, offsets, Regulation 2-5]

13. If any of the fugitive component counts exceed the count stated in Part 12, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The Owner/Operator submitted 0.750 tons per year of POC offset credits corresponding to the component counts in Part 12. If the actual component count is less than the predicted, the total emissions in Part 13 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO. [Basis: offsets]
14. The Owner/Operator shall as part of the S-6015 D&R Flare Project install only the following types of valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO. [Basis: cumulative increase]
15. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves installed as part of the application 22634 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

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[Basis: cumulative increase, Regulation 8 Rule 18]

16. The Owner/Operator shall install graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO on all flanges or connectors installed as part of the S-6015 D&R Flare Project in hydrocarbon service. [Basis: cumulative increase]
17. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges and/or connectors installed as part of application 22634 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: cumulative increase, offsets, Regulation 8 Rule 18]
18. The owner/operator of S-6015 fugitive components shall not exceed 500.0 ppm of TOC (measured as C1) at any of the pumps installed as part of application 22634 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: cumulative increase, offsets, Regulation 8-18]
19. The Owner/Operator shall conduct inspections of fugitive components installed as part of application 22634 in hydrocarbon service in accordance with the frequency below:
Pumps: Quarterly
Valves: Quarterly
Connectors (Not Flanges): Biannual Flanges:
Biannual
[Basis: cumulative increase, Regulations 8 Rule 18]
20. The Owner/Operator shall not exceed 0.649 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of application 22634 in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 21. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 22634.
[Basis: Cumulative Increase, offsets]
21. If all of the fugitive components installed as part of application 22634 in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of application 22634 in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 20 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all S-6015 D&R Flare Project fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter. This calculation shall continue each quarter until there is not a quarter containing a pegged leaker. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all D&R Flare Project fugitive components in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 9. [Basis: Cumulative Increase, Offsets]
22. The Owner/Operator shall keep a District-approved monthly log of fugitive component counts installed as part of application 22634, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per parts 20 and 21 for at least five years from date

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of entry. The log shall be retained on site and made available to district staff upon request.
[Basis: offsets, recordkeeping]

Condition 25001

Plant 10 Application 21677

S-4373

1. The owner/operator of S-4373 shall not exceed a total of 28,000 gallons of Corrosion inhibitor in any consecutive 12 month period. (basis: cumulative increase)
2. The owner/operator of S-4373 shall only store materials with a true vapor pressure not to exceed 0.5 psia. (basis: Regulation 8-5-117 and cumulative increase)
3. The owner/operator of S-4373 may change the chemicals described in application 22916 subject to district approval, provided that the owner/operator demonstrates to the satisfaction of the district that the source will not be modified per 2-1-234, there will be no increase in emissions, and the emissions of toxic air contaminants will not equal or exceed any trigger levels specified in Regulation 2.5. (basis: Regulations 2-1-301, 2-5)
4. The owner/operator of S-4373 shall maintain a district approved monthly log of all material throughput, the date in which throughput is added and the amount added, material safety and data sheets for material stored, and vapor pressure of material stored at S-4373 in order to demonstrate compliance with parts 1 through 3. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. (basis: record keeping)

S-4373 Chemical Tote- Fugitive component conditions

For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136

5. Within 30 days of District's issuance of the Permit to Operate for Application 22916, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:
28 valves in hydrocarbon service;
18 flanges in hydrocarbon service;
2 pumps in hydrocarbon service;
98 connectors in hydrocarbon service;
4 PSVs in hydrocarbon service. The final count and identification codes provided on 8/8/11. [Basis: Cumulative Increase, offsets, Regulation 2-5]
6. If any of the fugitive component counts exceed the count stated in Part 5, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The Owner/Operator submitted 0.677 tons per year of POC offset credits corresponding to the fugitive component counts in Part 5. If the actual component count is less than the predicted, the total emissions in Part 11 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO. [Basis: offsets]

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7. The Owner/Operator of S-4373 shall install only the following types of components:
 - a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO.
 - b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO.
 - c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent as determined by the APCO. [Basis: cumulative increase]

8. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, connectors, and/or PSVs installed as part of the application 22916 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: cumulative increase, Regulation 8 Rule 18]

9. The owner/operator of S-4373 fugitive components shall not exceed 500.0 ppm of TOC (measured as C1) at any of the pumps installed as part of application 22916 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [basis: cumulative increase, offsets, Regulation 8-18]

10. The Owner/Operator shall conduct inspections of fugitive components installed as part of application 22916 in hydrocarbon service in accordance with the frequency below:
 - Pumps: Quarterly
 - Valves: Quarterly
 - PSV's: Quarterly
 - Flanges: Biannual
 - Connectors: Biannual [Basis: cumulative increase, Regulations 8 Rule 18]

11. The Owner/Operator shall not exceed 0.589 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of application 22916 in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 12. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 22916.[Basis: Cumulative Increase, offsets]

12. If all of the fugitive components installed as part of application 22916 in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of application 22916 in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 11 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all S-4373 fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter in order to demonstrate compliance with part 11. This calculation shall continue each quarter until there is not a quarter containing a pegged leaker. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all fugitive components included in part 5 (application 22916) in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 11. [Basis: Cumulative Increase, Offsets]

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13. [The Owner/Operator shall keep a District-approved monthly log of fugitive component counts installed as part of application 22916 and each component's unique permanent identification codes per part 5, monitoring results, and any annual emissions estimates required per parts 11 and 12 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request.](#) [Basis: offsets, recordkeeping]

Condition 25037

Plant 10 Application 22722 and 25948 S-3229

1. The owner/operator of S-3229 shall not exceed 6,000,000 barrels of recovered oil in any consecutive 12 month period. (Basis: cumulative increase)
2. The owner/operator of S-3229 shall not exceed 38,000 barrels of recovered oil in any calendar day. If the owner/operator of S-3229 exceeds 38,000 barrels of recovered oil in any calendar day, the owner/operator shall conduct a district -approved emissions calculation, within 7 days of the exceeding 38,000 barrels, in order to demonstrate that VOC emissions did not exceed the maximum permitted amount of 16.4 pounds per day. The calculation shall use the actual measured throughput, operating temperature, true vapor pressure and permitted fittings as contained in part 5. (Basis: cumulative increase)
3. The owner/operator of S-3229 shall only store materials with a true vapor pressure not to exceed 10.3 psia. (Basis: cumulative increase)
4. The owner/operator of S-3229 shall store materials as recovered oil or any other petroleum hydrocarbon material that complies with these conditions and with a benzene content not to exceed 2% by weight, an ethylbenzene content not to exceed 2% by weight, and a naphthalene content not to exceed 2% by weight. In addition all other toxic air contaminant emissions shall not exceed the respective risk screening trigger levels contained in Regulation 2-5. The owner/operator of S-3229 shall sample the contents of the tank on a quarterly basis in order to demonstrate compliance with this part. (Basis: Regulation 2-5)
5. The owner/operator shall control organic emissions from S-3229 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings.

Control techniques for roof fittings not included in this list shall be subject to prior District approval, prior to installing the roof on the tank. (Basis: BACT)

Fitting Type	Control Technique
-----	-----
Access hatch	Bolted cover, gasketed
Guide pole/Well	Slotted with a pole sleeve That projects below liquid surface a zero-gap pole wiper and gasketed sliding cover w/ float an exterior flexible barrier/cover that covers all of the slots
Gauge float well	Bolted cover, gasketed.

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Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	none
Roof leg	Adjustable, w/vapor seal boot.
<u>Rim vent</u>	<u>Weighted mechanical actuation, gasketed (BACT).</u>

6. The owner/operator of S-3229 shall properly install and properly operate a district approved dome on S-3229 that further controls organic emissions. (Basis: CEQA and BACT)
7. The owner/operator of S-3229 shall be ~~equipped~~equip the tank with a temperature measuring device with a set point temperature of no more than 180F at S-3229. The owner/operator shall sample the tank prior to heating above 120F in order to demonstrate compliance with part 3. (Basis: cumulative increase)

S-3229 Recovered Oil Tank- Fugitive component conditions - For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136.

- ~~8. Within 30 days of District's issuance of the Permit to Operate for Application 22722, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:~~

~~135 valves in hydrocarbon service;
98 flanges in hydrocarbon service;
4 pumps in hydrocarbon service;
3 PRDs in hydrocarbon service. [Basis: Cumulative Increase, offsets, Regulation 2-5]~~

- ~~9. If any of the fugitive component counts exceed the count stated in Part 8, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The Owner/Operator submitted 0.808 tons per year of POC offset credits corresponding to the fugitive component counts in Part 8. If the actual component count is less than the predicted, the total emissions in Part 13 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO.~~

~~[Basis: offsets]~~

- ~~10.8.~~ The Owner/Operator of S-3229 shall install only the following types of fugitive components:
 - a. for valves in hydrocarbon service:
 - 1) bellows sealed
 - 2) live loaded
 - 3) graphitic packed
 - 4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO.

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- b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO.
- c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent as determined by the APCO. This control technology requirement does not apply to the ¾ HP self-contained gear sample pump.
- d. For pressure relief devices: the three thermal relief valves shall vent back into the tank. [Basis: BACT, cumulative increase]

~~11.9.~~ The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any pumps, valves, flanges, and/or PRDs installed as part of the application 22722 in hydrocarbon service, unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [Basis: BACT, cumulative increase, Regulation 8 Rule 18, CEQA]

~~12.10.~~ The Owner/Operator shall conduct inspections of fugitive components installed as part of application 22722 in hydrocarbon service in accordance with the frequency below:

Pumps: Quarterly
Valves: Quarterly
PRD's: Quarterly
Flanges: Biannual
[Basis: BACT, cumulative increase, Regulations 8 Rule 18]

~~13.11.~~ The Owner/Operator shall not exceed 0.702 tons of POC emissions per consecutive 365-day period measured as C1 from ~~for~~ all fugitive components installed as part of application 22722 in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 14. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 22722. [Basis: Cumulative Increase, offsets]

~~14.12.~~ If all of the fugitive components installed as part of application 22722 in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of application 22722 in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 13 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all S-3229 fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter in order to demonstrate compliance with part 13. This calculation shall continue each quarter, until there is not a quarter containing a pegged leaker (10,000 ppm or greater). For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all application 22722 fugitive components in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 9. [Basis: Cumulative Increase, Offsets]

~~15.13.~~ The Owner/Operator shall keep a District-approved log of fugitive component counts installed as part of application 22722, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per parts 13 and 14 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request. [Basis: offsets, recordkeeping]

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~~46.14.~~ The owner/operator of S-3229 shall maintain a district approved daily log with monthly summaries of all material throughput including emissions calculations as required per part 2, HAP concentrations per part 4, temperature, and vapor pressure at S-3229 in order to demonstrate compliance with parts 1 through 3. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. ([Basis](#): recordkeeping)

Condition 25144

Plant 10 Application 23423

S-1292

1. The owner/operator of S-1292 shall not exceed 4,802,722 barrels throughput of JP-8, Jet A or similar initial boiling point range stock that complies with parts 2, 3 and 4 of this condition during any consecutive 12-month period. The owner/operator shall comply with the applicable provisions of Regulation 8-5 for all stock changes. If the tank is returned to only diesel service or other exempt stock per District Regulation 2-1-123, the throughput limit shall not apply after testing of the material from the top layer of the material in the tank demonstrates per Regulation 8-5-606.1 that the owner/operator meets the requirements of the exemption. ([Basis](#): cumulative increase)
2. The owner/operator of S-1292 shall store only JP-8, Jet A, or similar jet fuel with an initial boiling point range that complies with both the limits in parts 3 and 4, or exempt stock. If the owner/operator stores materials other than JP-8 and Jet A and with similar boiling point range stock, the owner/operator of S-1292 shall demonstrate to the satisfaction of the APCO that there will be no increase in any TAC/HAP emissions above the trigger levels contained in District Regulation 2, Rule 5. ([Basis](#): cumulative increase, [Regulation 2-5](#))
3. The owner/operator of S-1292 shall monitor the initial boiling point (IBP), at a minimum, on a weekly basis, unless there has not been any material added and/or removed since the last sample, and the IBP shall be maintained at a minimum of 290 degrees F on a monthly average basis and 302 degrees F on any consecutive 12 month average basis. The owner/operator of S-1292 shall not store materials with an IBP less than 275F. ([Basis](#): cumulative increase)
4. The owner/operator of S-1292 shall not exceed a true vapor pressure (TVP) of 0.8 psia. The owner/operator of S-1292 shall measure the true vapor pressure at a minimum on a monthly basis and additionally shall measure the true vapor pressure each time the type of stock stored in the tank is changed. The owner/operator shall not exceed an average true vapor pressure of 0.5 psia on a monthly average basis. ([Basis](#): cumulative increase, [Regulation 8-5](#))
5. When the owner/operator of S-1292 is storing JP8, Jet A or similar material, the owner/operator of S-1292 shall comply with all applicable requirements of Reg. 8-5 as if S-1292 was storing a material with a true vapor pressure greater than 0.5 psia. ([Basis](#): cumulative increase, [Regulation 8-5](#))
6. The owner/operator of S-1292 shall tag, inspect, and include in Chevrons LDAR program all fugitive components associated with S-1292 for compliance with Reg. 8-18 including the provisions contained within section 8-18-400. ([Basis](#): [Regulation 8-18](#))
7. The owner/operator of S-1292 shall maintain records of the daily tank throughput, a minimum of monthly records of contents and all lab results to confirm compliance with parts 1 through 6. These records may be in the form of computer generated data that shall be made available to District personnel upon request. These records shall be kept on file for a minimum of 5 years from the date of entry. ([Basis](#): Record keeping, [Regulation 8-5-501](#))

COND# 25176 -----

VI. Permit Conditions

Application 23827

~~1. Within 30 days of District's issuance of the Permit to Operate for Application 23827 or the completion of the installation of fugitive components at #17 Pump Station (S-4441), the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project.~~

The owner/operator has been permitted to install the following fugitive components:

87 valves in hydrocarbon service;

166 flanges in hydrocarbon service;

124 connectors in hydrocarbon service;

Final counts submitted to the district 2/6/14.

[Basis: Cumulative Increase, offsets, Regulation 2-5]

2. If any of the fugitive component counts exceed a count stated in Part 1, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count.

However, if the increase requires additional review, the owner/operator shall submit an application to address the additional components emissions and review. The

Owner/Operator submitted 0.854 tons per year of POC offset credits corresponding to the component counts in Part 1. If the actual component count is less than the predicted, the total emissions in Part 2 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO.

[Basis: offsets]

3. The Owner/Operator of S-4441 shall as part of the #17 Pump Station fugitive component replacement project install only the following types of valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e. g., ball valves or plug valves), or equivalent as determined by the APCO.

[Basis: BACT, cumulative increase]

4. The Owner/Operator of S-4441 shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves installed as part of the #17 Pump Station fugitive component replacement project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

[Basis: BACT, cumulative increase, Regulation 8 Rule 18]

5. The Owner/Operator of S-4441 shall install graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO on all flanges or connectors installed as part of the #17 Pump Station fugitive component replacement project in hydrocarbon service.

[Basis: BACT, cumulative increase]

6. The Owner/Operator of S-4441 shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges and/or connectors installed as part of the #17 Pump Station fugitive component replacement project in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.

[Basis: BACT, cumulative increase, Regulation 8, Rule 18]

7. The Owner/Operator shall conduct inspections of fugitive components installed as part of the

VI. Permit Conditions

#17 Pump Station fugitive component replacement project in hydrocarbon service in accordance with the frequency below:

Valves: Quarterly

Connectors (Not Flanges): Biannual

Flanges: Biannual

[Basis: BACT, cumulative increase, Regulations 8 Rule 18]

8. The Owner/Operator of S-4441 shall not exceed 0.854 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of the #17 Pump Station fugitive component replacement project in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 9. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the completion of the #17 Pump Station fugitive component replacement project or the District's issuance of the Permit to Operate for Application 23827.

[Basis: Cumulative Increase, offsets]

9. If none of the fugitive components installed as part of the #17 Pump Station fugitive component replacement project in hydrocarbon service are leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1) in any consecutive 12-month period, no further verification and no submittal of the results shall be required. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all #17 Pump Station fugitive component replacement project fugitive components in hydrocarbon service utilizing District approved methods. The owner/operator shall submit the emissions report within 30 days of the end of each quarter requiring an emissions calculation. This calculation shall continue each quarter until there is a consecutive 12-month period that does not contain a component with a leak rate equal to or greater than 10,000 ppm of TOC (measured as C1). For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all #17 Pump Station fugitive component replacement project fugitive components in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 8.

[Basis: Cumulative Increase, BACT, Offsets]

10. The Owner/Operator shall keep a District-approved monthly log of fugitive component counts of the #17 Pump Station fugitive component replacement project, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per parts 8 and 9 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request.

[Basis: offsets, recordkeeping]

Condition 25479

Plant 10 Application 23069

S-4374

~~2-~~ 1. The owner/operator of S-4374 shall not exceed a total of 10,000 gallons of Flocculent in any consecutive 12 month period. (Basis: cumulative increase)

~~3-~~ 2. The owner/operator of S-4374 shall only store materials with a true vapor pressure not to exceed 0.5 psia. (Basis: Regulation 8-5-117 and cumulative increase ~~sum ine~~)

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4. 3. The owner/operator of S-4374 may change the chemicals described in application 23069 provided that the owner/operator demonstrates that there will be no increase in emissions (32 pounds POC in any consecutive 12 month period) and the emissions of toxic air contaminants will not equal or exceed any trigger levels specified in Regulation 2-5. ([Basis: Regulations 2-1-301, 2-5](#))
4. The owner/operator of S-4374 shall maintain a district approved monthly log of all material throughput, material safety data sheets for material stored, and vapor pressure of material stored at S-4374 in order to demonstrate compliance with parts 1 through 3 including emissions calculations in order to demonstrate compliance with part 3. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. ([Basis: record keeping](#))
- S-4374 Chemical Tote- Fugitive component conditions
For the purposes of these permit conditions hydrocarbon service is as defined in the Renewal Project Permit Condition #24136
5. 5. Within 30 days of District's issuance of the Permit to Operate for Application 23069, the Owner/Operator shall provide the District's Engineering Division with a final count of all fugitive components and each component's unique permanent identification codes in this project. The owner/operator has been permitted to install the following fugitive components:
- 6 valves in hydrocarbon service;
 - 2 flanges in hydrocarbon service;
 - 2 pumps in hydrocarbon service;
 - 14 connectors in hydrocarbon service. [[Basis: Cumulative Increase, offsets, Regulation 2-5](#)]
6. 6. If any of the fugitive component counts exceed the count stated in Part 5, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The Owner/Operator submitted 0.589 tons per year of POC offset credits corresponding to the fugitive component counts in Part 5. If the actual component count is less than the predicted, the total emissions in Part 11 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO. [[Basis: offsets](#)]
7. 7. The Owner/Operator of S-4374 shall install only the following types of components:
- a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO.
 - b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology as determined by the APCO.
 - c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent as determined by the APCO. [[Basis: cumulative increase](#)]
8. 8. The Owner/Operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and/or connectors installed as part of the application 23069 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [[Basis: cumulative increase, Regulation 8 Rule 18](#)]

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- ~~9.~~ 9. The owner/operator of S-4374 fugitive components shall not exceed 500.0 ppm of TOC (measured as C1) at any of the pumps installed as part of application 23069 in hydrocarbon service unless the Owner/Operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. [[Basis](#): cumulative increase, offsets, Regulation 8-18]
- ~~10.~~ 10. The Owner/Operator shall conduct inspections of fugitive components installed as part of application 23069 in hydrocarbon service in accordance with the frequency below:
Pumps: Quarterly
Valves: Quarterly
Connectors: annual
Flanges: annual [[Basis](#): cumulative increase, Regulations 8 Rule 18]
- ~~11.~~ 11. The Owner/Operator shall not exceed 0.512 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of application 23069 in hydrocarbon service. Compliance with this provision shall be verified quarterly using methods described in part 12. The results shall be submitted to the District within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 23069 as required by part 12.
[[Basis](#): Cumulative Increase, offsets]
- ~~12.~~ 12. If all of the fugitive components installed as part of application 23069 in hydrocarbon service are leaking at a rate less than 5000 ppm of TOC (measured as C1) in any calendar quarter, no further verification and no submittal of the results shall be required. If any of the fugitive components installed as part of application 23069 in hydrocarbon service are leaking at a rate equal to or greater than 5,000 ppm of TOC (measured as C1) in any calendar quarter, the owner/operator shall conduct an annual emissions estimate in order to demonstrate compliance with part 11 and shall submit the results to the district within 30 days of the annual emissions calculation. For any calendar quarter in which one or more of these components is leaking at a rate equal to or greater than 10,000 ppm of TOC (measured as C1), the Owner/Operator shall calculate and submit a report of fugitive emissions from all S-4374 fugitive components in hydrocarbon service utilizing District approved methods for the consecutive 12 month period ending with this quarter in order to demonstrate compliance with part 11. This calculation shall continue each quarter until there is not a quarter containing a pegged leaker. For leaking components the owner/operator shall use the modified trapezoidal method and LeakDAS as documented within the application 12842 (Renewal Project) or other method pre-approved by the District. The Owner/Operator shall include emissions estimates from all fugitive components included in part 5 (application 23069) in hydrocarbon service regardless of the component Rule 8-18 repair status in order to demonstrate compliance with part 11. [[Basis](#): Cumulative Increase, Offsets]
- ~~13.~~ 13. The Owner/Operator shall keep a District-approved monthly log of fugitive component counts installed as part of application 23069 and each component's unique permanent identification codes per part 5, monitoring results, and any annual emissions estimates required per parts 11 and 12 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request. [[Basis](#): offsets, recordkeeping]

COND# 25703 -----

Conditions for A-629 Temporary Carbon System Vent-Scrub Vapor Phase Adsorbers,
Model: VSC-200, 2 sets of 3 drums, 200 lbs each
Abating S-32111 No. 17 Pump Station Fugitive Emissions
Application # 25630/25747

1. Whenever A-624 (thermal oxidizer) is taken out of service, the owner/operator may abate

VI. Permit Conditions

S-32111 (No. 17 Pump Station) emissions by abatement device A-629 (temporary carbon system) consisting of two separate trains, each containing three 200 lb activated or greater carbon vessels arranged in series. [Basis: Regulations 2-1-106, 2-1-403]

2.The owner/operator shall only operate one of the two A-629 carbon trains at any given time. Whenever one of the A-629 trains is in use, the other train shall be physically prevented (e.g. block valve) from accepting flow. [Basis: Regulation 2-1-403, Cumulative Increase]

3.The owner/operator shall use a Flame Ionization Detector (FID) to monitor at least daily for total organic compounds (TOC), as C1, at the inlet of A-629 and at the outlet of each carbon vessel in series. The FID monitor shall have a resolution of at least 0.01 parts per million (ppm). Monitoring is only required when A-629 and the abated source (S-32111 No. 17 Pump Station) are in operation. The FID shall be calibrated and maintained according to U.S. EPA Method 21 and FID manufacturer specifications. For each period of A-629 operation, the owner/operator may propose for District review, based on actual measurements taken at the site during operation of the source, that monitoring frequency be changed, after the first six days of A-629 operation, based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Engineering Division must be received by the owner/operator prior to a change to the monitoring frequency. [Basis: Regulations 2-1-106, 2-1-403]

4.All TOC monitor samples shall be representative. The owner/operator shall conduct all TOC monitoring using a monitor probe fitted with a rubber stopper (or similar device) to prevent ambient air from entering the sample inlet and diluting the sample. The owner/operator shall introduce and hold the monitor probe directly into the A-629 emissions stream at each sample point. If the sample point consists of a t-joint, the monitor probe must be inserted into the main exhaust stream. The owner/operator shall design, construct, and operate the carbon system (A-629) and sampling system to allow representative sampling as defined in District Manual of Procedures, Volume IV. [Basis: Regulation 2-1-403]

5.The owner/operator shall record all TOC monitor readings in a daily monitoring log at the time the readings are taken. [Basis: Regulation 2-1-403]

6.The owner/operator of A-629 shall abate TOC emissions, as C1, by at least 95 percent or greater. The A-629 abatement efficiency shall be determined using the TOC monitoring results of Part 3. [Basis: Regulations 2-1-106, 2-1-403]

7.The owner/operator of A-629 shall not exceed a TOC concentration at the A-629 outlet of ~~2.0~~10 parts per million by volume, as C1. [Basis: Regulations 2-1-106, 2-1-403]

8.The owner/operator shall change out the first carbon vessel with unspent carbon upon breakthrough, defined as the detection at the vessel out of the higher of the following:
a.10% of the inlet stream concentration to the carbon vessel, or
b.~~200~~ 1000 ppmv or greater (as C1)
[Basis: Cumulative Increase]

9.The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at the vessel out of the higher of the following:
a.10% of the inlet stream concentration to the carbon vessel, or

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b. ~~20~~1000 ppmv or greater (as C1)
[Basis: Cumulative Increase]

10. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of ~~2~~10 ppmv or greater (as C1).
[Basis: Regulations 2-1-106, 2-1-403]

11. The owner/operator of A-629 shall not exceed a flow rate of 4.0 cubic feet per minute. The owner/operator shall install variable area float gauges (ball floats or similar devices) on each A-629 train to indicate A-629 flow rate and verify compliance with the 4.0 cubic feet per minute limit. The gauges shall have a minimum resolution of 0.2 cubic feet per minute.
[Basis: Regulations 2-1-106, 2-1-403]

12. Whenever TOC monitoring is conducted, the owner/operator of A-629 shall also take readings of the flow meter required in Part ~~10~~1 at the same time and record the flow rate readings in the same daily monitoring log required in Part 5. The owner/operator of A-629 shall first verify that the flow meter is working (by tapping the sight glass to verify ball indicator is not stuck). [Basis: Regulations 2-1-106, 2-1-403]

13. As A-629 shall only be used when A-624 is taken out of service, the owner/operator shall maintain A-624 according to manufacturer recommendations. All maintenance on A-624 shall be recorded in a log made available to the APCO upon request. A copy of the manufacturer preventative maintenance recommendations shall be made available to the APCO upon request. [Basis: Regulation 2-1-403]

14. The owner/operator shall maintain the following records onsite for at least five years from date of last entry:
a.all TOC monitoring results,
b.all flow meter readings,
c.FID monitor serial number and identification,
d.FID monitor calibration results,
e.Monitor operator name,
f.reason for any periods where TOC readings were not taken,
g.date and time of all readings, and
h.date each carbon drum was taken out of service.
[Basis: Regulation 2-1-403]

Condition 25785

Plant 10 Application 25960

S-4375

1. The owner/operator of S-4375 (one 7,000 gallon horizontal fixed roof tank; chemical trailer container) shall not exceed the following throughput limit during any consecutive twelve-month period: NALCO EC5491A (TVP \leq 1.4 psia) - 180,000 Gallons (Basis: cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC emissions (including fugitive component emissions) from S-4375 do not exceed 868 pounds in any consecutive twelve month period; and
 - b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.

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(Basis: Cumulative Increase; Toxics)

3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Cumulative Increase; Toxics)
4. Not more than 30 days after the start-up of S-4375, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components in liquid service: Valves: 9; Flanges: 0; Connectors: 129; Pumps: 1; PAV: 1 (Basis: Cumulative Increase, offsets, toxics risk screen)
5. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (Basis: offsets)
6. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.

(Basis: BACT, Regulation 8-18, toxics risk screen)
7. The owner/operator shall install flanges (if applicable) and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.

(Basis: BACT, Regulation 8-18, toxics risk screen)
8. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.

(Basis: BACT, Regulation 8-18, toxics risk screen)
9. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process, to the refinery fuel gas system, or to an abatement device with a capture and destruction efficiency of at least 98% by weight.

(Basis: BACT, Regulation 8-28, toxics risk screen)
10. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of S-4375 into the facility fugitive equipment monitoring and repair program. (Basis: BACT, Regulation 8-18)

VI. Permit Conditions

Condition 25814

Plant 10 Application 25793

S-4490

1. The Owner/Operator of the new Sulfur Loading Rack S-4490 shall abate this source by a properly maintained and properly operated A-310 Sulfur Loading Rack Water Scrubber in series with Caustic Scrubber of Packed Bed Design at all times of operation of S-4490. The Owner/Operator of A-310 shall abate only S-4490 with A- 310. [Basis: Cumulative Increase, Rule 2-5]
 - (a) The Owner/Operator of S-4490 shall install and maintain a safety interlock that prevents the operation of S-4490 without the A-310 scrubber properly operating in order to demonstrate compliance with Part 1.
 - (b) The Owner/Operator of S-4490 shall ensure toxic air contaminant (TAC) emissions from the sulfur loading rack do not exceed any risk screening trigger levels for TACs listed in Table 2-5-1 of Regulation 2-5. [Basis: Cumulative Increase, Toxics]
2. The Owner/Operator of S-4490 Sulfur Loading Rack shall not exceed any of the following limits:
216,330 long tons during any consecutive 12-month period
[157 long tons per hourday on an annual average basis](#)
[593-592.7 long tons per calendar day on an annual average basis.](#)
[1,387 long tons per calendar day.](#)
[Basis: Cumulative Increase]
3. In order to demonstrate compliance with Part 2, the Owner/Operator of S-4490 shall maintain records of calendar day, monthly, and consecutive 12-month total sulfur loaded, in long tons, at S-4490. The Owner/Operator shall keep these records in a District approved log for a period of at least 5 years from date of entry and make the records available to District staff upon request.
[Basis: Regulation 2-1-301, Recordkeeping]
4. The Owner/Operator shall not simultaneously operate S- 4490 and the existing Sulfur Loading Rack (S-4396), which is abated by water scrubber (A-43) and caustic scrubber (A-44), for more than 90-days after S-4490 is started-up. When S-4396 is dismantled and removed from service, air emissions from molten sulfur storage tanks (~~S-3141-3234~~ and S-3226) shall be abated at all times by A-43 and A-44. The Owner/Operator shall notify the District in writing of the date S-4396 was taken out of service. [Basis: Regulation 2-1-403, 2-2-410]
5. The Owner/Operator shall ensure the concentration of hydrogen sulfide from A-310 does not exceed 12 ppm. To demonstrate compliance with the hydrogen sulfide concentration limit and once every year, the Owner/Operator shall conduct a source test at S-4490 while operating it at maximum capacity when processing a saleable product.

The requirement for testing "once every year" as used herein requires that the testing must commence annually during the period of time two weeks before or two weeks after the date on which the initial compliance testing was completed (the initial annual test date). If operating conditions at the Plant in subsequent years prevent the annual testing from being commenced during that window of time, the Owner/Operator shall notify the District and provide an explanation of the circumstances at the facility preventing the conduct of the annual testing. The District and the Owner/Operator will then agree upon an alternative time to commence the annual testing. Thereafter the agreed upon test date will become the new annual test date for setting the window for annual testing in future years until such time as circumstances require another adjustment to the annual test date.

[Basis: Regulation 2-1-223.7, 2-1-301, Regulation 2-6- 409.2]

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6. Prior to conducting source tests required by this permit condition the Owner/Operator shall submit a source test protocol for approval to the District's Source Test Section. The Owner/Operator shall describe the test methods that will be used to determine the hydrogen sulfide concentration. The owner/operator shall describe the expected throughputs to the equipment during the source tests. [Basis: Regulation 2-1-301)
7. The owner/operator shall notify the Manager of the District's Source Test Section at least thirty (30) days prior to the test, to provide the District staff the option of observing the testing. Within 60 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and disposition. Records of the source test results and any related correspondence with the District's Source Test Section shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document, and shall be made available to the District upon request. [Basis: Regulation 2-1-301, Regulation 2-6-503]
8. The frequency of source testing required under part 5 of this permit condition shall be reduced from annually to once every five years if three consecutive annual source tests document that the hydrogen sulfide concentration is less than 50 percent of the 12 ppm permit limit in Part 5. The frequency of source testing shall revert back to annually if any source test documents a hydrogen sulfide concentration 6 ppm or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions of hydrogen sulfide are less than 6 ppm. [Basis: Regulation 2-6-409.2]

COND# 25835 -----

Conditions for A-632 Temporary Carbon System Vent-Scrub Vapor Phase Adsorbers, Model: VSC-200, 2 sets of 3 drums, 200 lbs each Abating S-32114 No. 21 Pump Station Fugitive Emissions Application # 25747

1. Whenever A-623 (thermal oxidizer) is taken out of service, the owner/operator may abate S-32114 (No. 21 Pump Station) emissions by abatement device A-632 (temporary carbon system) consisting of two separate trains, each containing three 200 lb or greater activated carbon vessels arranged in series. [Basis: Regulation 2-1-403]
2. The owner/operator shall only operate one of the two A-632 carbon trains at any given time. Whenever one of the A-632 trains is in use, the other train shall be physically prevented (e.g. block valve) from accepting flow. [Basis: Regulation 2-1-403, Cumulative Increase]
3. The owner/operator shall use a Flame Ionization Detector (FID) to monitor at least daily for total organic compounds (TOC), as C1, at the inlet of A-632 and at the outlet of each carbon vessel in series. The FID monitor shall have a resolution of at least 0.01 parts per million (ppm). Monitoring is only required when A-632 and the abated source (S-32114 No. 21 Pump Station) are in operation. The FID shall be calibrated and maintained according to U.S. EPA Method 21 and FID manufacturer specifications. For each period of A-632 operation, the owner/operator may propose for District review, based on actual measurements taken at the site during operation of the source, that monitoring frequency be changed, after the first six days of A-632 operation, based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Engineering Division must be received by the owner/operator prior to a change to the monitoring frequency. [Basis: Regulation 2-1-403]
4. All TOC monitor samples shall be representative. The owner/operator shall conduct all TOC monitoring using a monitor probe fitted with a rubber stopper (or similar device) to prevent ambient air from entering the sample inlet and diluting the sample. The

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owner/operator shall introduce and hold the monitor probe directly into the A-632 emissions stream at each sample point. If the sample point consists of a t-joint, the monitor probe must be inserted into the main exhaust stream. The owner/operator shall design, construct, and operate the carbon system (A-632) and sampling system to allow representative sampling as defined in District Manual of Procedures, Volume IV. [Basis: Regulation 2-1-403]

5. The owner/operator shall record all TOC monitor readings in a daily monitoring log at the time the readings are taken. [Basis: Regulation 2-1-403]

6. The owner/operator of A-632 shall abate TOC emissions, as C1, by at least 95 percent or greater. The A-632 abatement efficiency shall be determined using the TOC monitoring results of Part 3. [Basis: Regulation 2-1-403]

7. The owner/operator shall change out the first carbon vessel with unspent carbon upon breakthrough, defined as the detection at the vessel out of the higher of the following:
a. 10% of the inlet stream concentration to the carbon vessel, or
b. 1000 ppmv or greater (as C1)
[Basis: Cumulative Increase]

8. The owner/operator shall change out the second to last carbon vessel with unspent carbon upon breakthrough, defined as the detection at the vessel out of the higher of the following:
a. 10% of the inlet stream concentration to the carbon vessel, or
b. 100 ppmv or greater (as C1)
[Basis: Cumulative Increase]

9. The owner/operator shall change out the last carbon vessel with unspent carbon upon detection at its outlet of 10 ppmv or greater (as C1).
[Basis: Regulation 2-1-403]

10. The owner/operator of A-632 shall not exceed a flow rate of 4.0 cubic feet per minute. The owner/operator shall install variable area float gauges (ball floats or similar devices) on each A-632 train to indicate A-632 flow rate and verify compliance with the 4.0 cubic feet per minute limit. The gauges shall have a minimum resolution of 0.2 cubic feet per minute. [Basis: Regulation 2-1-403]

11. Whenever TOC monitoring is conducted, the owner/operator of A-632 shall also take readings of the flow meter required in Part 10 at the same time and record the flow rate readings in the same daily monitoring log required in Part 5. The owner/operator of A-632 shall first verify that the flow meter is working (by tapping the sight glass to verify ball indicator is not stuck). [Basis: Regulation 2-1-403]

12. As A-632 shall only be used when A-623 is taken out of service, the owner/operator shall maintain A-623 according to manufacturer recommendations. All maintenance on A-623 shall be recorded in a log made available to the APCO upon request. A copy of the manufacturer preventative maintenance recommendations shall be made available to the APCO upon request. [Basis: Regulation 2-1-403]

13. The owner/operator shall maintain the following records onsite for at least five years from date of last entry:
a. all TOC monitoring results,
b. all flow meter readings,
c. FID monitor serial number and identification,
d. FID monitor calibration results,

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e. Monitor operator name.

f. reason for any periods where TOC readings were not taken.

g. date and time of all readings, and

h. date each carbon drum was taken out of service. [Basis: Regulation 2-1-403]

Condition 25848

Plant 10 Application 26252

S-~~3230~~3228

1. The owner/operator of S-~~3230~~3228 (one 150,000 barrel domed external floating roof storage tank) shall not exceed the following throughput limit during any consecutive twelve-month period: Gasoline (TVP < 11 psia)-10,000,000 barrels. (Basis: Cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usage in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - (a) Total POC emissions (including fugitive component emissions) from S-~~3230~~3228 do not exceed 28 pounds per day or 4,424 pounds per year in any consecutive twelve month period; and
 - (b) The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5. (Basis: Cumulative Increase; Toxics)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - (a) Quantities of each type of liquid stored at this source on a monthly basis.
 - (b) If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - (c) Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These record keeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.
(Basis: Cumulative Increase; Toxics)

4. ~~Not more than 30 days after the start-up of S-32303228, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed.~~ The owner/operator has been permitted for an increase in the following fugitive components in liquid service: Valves: 4769; Flanges: 59132; Connectors: 836; Pump seals: 43; PRD: 44; and Catch basin/manhole: 1
(Basis: Cumulative Increase, offsets, toxics risk screen)
5. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (Basis: offsets)
6. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent)

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such that fugitive organic emissions shall not exceed 100 ppm.
 (Basis: BACT, Regulation 8-18, toxics risk screen)

7. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: BACT, Regulation 8-18, toxics risk screen)
8. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
 (Basis: BACT, Regulation 8-18, toxics risk screen)
9. The owner/operator shall ensure the pressure relief valve installed on S-~~3230-3228~~ complies with Regulation 8-5-303. If the owner/operator installs additional pressure relief valves, they shall meet applicable requirements of Regulation 8, Rule 5, Rule 18, Rule 28 (Basis: Regulation 8-5)
10. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of S-~~3230-3228~~ into the facility fugitive equipment monitoring and repair program. (Basis: BACT, Regulation 8-18)
11. The owner/operator shall control organic emissions from S-~~3230-3228~~ by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal that meet the design criteria in Regulation 8, Rule 5. There shall be no ungasketed roof penetrations. Each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to prior District approval, prior to installing the roof on the tank. (BACT)

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well	Slotted with a pole sleeve that projects below liquid surface a zero-gap pole wiper and an exterior flexible barrier/cover that covers all of the slots
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	none
Roof leg	Adjustable, fitted with vapor seal boots
Rim vent	Weighted mechanical actuation, gasketed

Condition 25913
Plant 10 Application 26319
S-3231

1. The owner/operator of S-3231 (one 95,000 barrel domed external floating roof storage tank) shall not exceed the following throughput limit during any consecutive twelve-month period: Gasoline (TVP < 11 psia) - 10,000,000 barrels. (Basis: Cumulative Increase)

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2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usage in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:

 - (a) Total POC emissions (including fugitive component emissions) from S-3231 do not exceed 22 pounds per day or 4,286 pounds per year in any consecutive twelve month period; and
 - (b) The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5. (Basis: Cumulative Increase; Toxics)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:

 - (a) Quantities of each type of liquid stored at this source on a monthly basis.
 - (b) If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - (c) Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)
4. Not more than 30 days after the start-up of S-3231, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components in liquid service: Valves: 41; Flanges: 51; Connectors: 10; Pump seals: 1; PRO: 4; and Catch basin/manhole: 0 (Basis: Cumulative Increase, offsets, toxics risk screen)
5. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (Basis: offsets)
6. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: BACT, Regulation 8-18, toxics risk screen)
7. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: BACT, Regulation 8-18, toxics risk screen)
8. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm. (Basis: BACT, Regulation 8-18, toxics risk screen)
9. The owner/operator shall ensure pressure relief valves installed on S-3231 complies with Regulation 8-5-303. If the owner/operator installs additional pressure relief valves, they shall meet applicable requirements of Regulation 8, Rule 5, Rule 18, Rule 28 (Basis: Regulation 8-5)

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10. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of S-3231 into the facility fugitive equipment monitoring and repair program. (Basis: BACT, Regulation 8-18)
11. The owner/operator shall control organic emissions from S-3231 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper seal that meet the design criteria in Regulation 8, Rule 5. There shall be no ungasketed roof penetrations. Each roof fitting shall be of the design, which yields the minimum roof fitting losses. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to prior District approval, prior to installing the roof on the tank. (BACT)

Fitting Type & Control Technique

Access hatch:

Bolted cover, gasketed

Guide pole/Well:

Slotted with a pole sleeve that projects below liquid surface a zero-gap pole wiper and an exterior flexible barrier/cover that covers all of the slots

Gauge float well:

Bolted cover, gasketed

Gauge hatch/Sample well:

Weighted mechanical actuation, gasketed

Vacuum breaker:

Weighted mechanical actuation, gasketed

Roof drain: none

Roof leg:

Adjustable, fitted with vapor seal boots

Rim vent:

Weighted mechanical actuation, gasketed
(BACT)

~~Condition 26127~~

~~Plant 10 Application 26684~~

~~S-4401~~

- ~~1. The owner/operator of S-4401 "Ranch Area Maintenance Yard Prime Diesel Engine Generator" shall ensure the diesel exhaust particulate matter (DEPM) emission rate does not exceed 0.01 g/kWhour or mass rate emissions no greater than 0.00458 pounds per hour. (Basis: Health Risk Screening Analysis)~~
- ~~2. In order to demonstrate compliance with the DEPM emission rate in part 1 of this permit condition, the owner/operator of S-4401 shall perform a District approved source test within 60 days of startup and once every 5 years thereafter to measure the total suspended particulate matter via EPA Method 5 when operating the engine at conditions representative of normal operations.~~

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~~(Basis: Regulation 2-1-403, Health Risk Screening Analysis)~~

- ~~3. The owner/operator shall submit a source test protocol for review/approval to the Manager of the District's Source Test Section prior to conducting source tests at S-4401. The owner/operator shall describe the source test methods that will be used to determine DEP emissions. (Basis: Regulation 2-1-403)~~
- ~~4. The owner/operator shall notify the Manager of the District's Source Test Section at least fifteen (15) days prior to conducting the source tests required by this permit condition in order to allow District staff the option of observing the source tests. Within 60 days of test completion, the owner/operator shall submit a comprehensive report of the test results to the Manager of the District's Source Test Section for review and disposition. Records of the source test results and any related correspondence with the District's Source Test Section shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document and shall be made available to District staff upon request. (Basis: Regulation 2-6-503)~~

~~The owner/operator of S-4401 shall maintain fuel usage records in a District-approved log for at least 5 years from the date of entry. Log entries shall be retained by the owner/operator on-site, either at a central location or at the engine's location, and shall be made available to the District staff for review upon request. (Basis: Regulation 2-6-501)~~

Condition 26558

Plant 10 Application 28535

S-6022

1. The owner/operator of S-6022 (400 gallon NALCO PORTA-FEED® Senior refillable tote) shall not exceed the following throughput limit during any consecutive twelve-month period:
NALCO® EC1010A Corrosion Inhibitor (TVP < 0.5 psia): 1,825 gallons.
(Basis: Cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usage in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC emissions (including fugitive component emissions) from S-6022 do not exceed 1,089 pounds per year in any consecutive twelve month period; and
 - b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
(Basis: Cumulative Increase; Toxics)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

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All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.
(Basis: Cumulative Increase; Toxics)

4. Not more than 30 days after the start-up of S-6022, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components in liquid service: Valves: 5; Flanges: 27; Connectors: 0; Pump seals: 1; PRD: 6.
(Basis: Cumulative Increase, offsets, toxics risk screen)
5. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.
(Basis: offsets)
6. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(Basis: Regulation 8-18, toxics risk screen)
7. The owner/operator shall install flanges, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(Basis: Regulation 8-18, toxics risk screen)
8. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
(Basis: Regulation 8-18, toxics risk screen)
9. The owner/operator shall ensure pressure relief valves installed on S-6022 and the exempt 217 gallon NALCO PORTA-FEED® Junior transfer tote S-6023 comply with and meet applicable requirements of Regulation 8, Rule 5, Rule 18, Rule 28.
(Basis: Regulation 8-5, Regulation 2-1-403)
10. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of S-6022 and S-6023 into the facility fugitive equipment monitoring and repair program.
(Basis: Regulation 8-18)

Condition 26681

Plant 10 Application 28904

For pumps (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) at S-4429

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1. The owner/operator of S-4429 (#8 NH₃/ H₂S Plant) shall ensure shaft seal emissions from pumps (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) are captured and vented to furnaces S-4152, S-4155, S-4161, S-4168, and S-4169) at all times of operation. Any furnace to which pump seals are vented shall be properly operated and maintained at all times that the pumps are operating. Vent gas shall be exhausted directly into a gas burner flame and shall not exhaust into an unlit burner. The seal vent system shall be equipped with continuous flow monitors in order to demonstrate that all vent gases are flowing to an operating furnace. Sections of the vent system may be temporarily shutdown for repair or maintenance while the pumps are in service as long as the pumps and other fugitive components that are normally abated by the vent system comply with the requirements of Regulation 8, Rule 18. These temporary shutdowns for repair and maintenance shall not exceed 14 days in any consecutive 12 month period. The owner/operator shall monitor the fugitive components for compliance with Regulation 8, Rule 18 within 24 hours of repair or maintenance period commencing. The owner/operator shall operate non-leaking pumps if available during these periods of maintenance and repair of the vent gas system. (Basis: Cumulative Increase, Regulation 2-1-403)
2. Not more than 30 days after shaft seal emissions from pumps (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) are captured and vented to furnaces (S-4152, S-4155, S-4161, S-4168, and S-4169), the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components: Valves: 5; Flanges: 80. (Basis: Cumulative Increase, offsets)
3. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (Basis: offsets)
4. The owner/operator shall install valves that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18, toxics risk screen)
5. The owner/operator shall install flanges that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18, toxics risk screen)
6. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment installed as part of the project into the facility fugitive equipment monitoring and repair program. (Basis: Regulation 8-18)
7. The owner/operator shall notify the District's Engineering Division and provide supporting documentation no later than 30 days after receiving the US EPA's approval of their (AMP) that would allow them to monitor the hydrogen sulfide concentration in the refinery fuel gas streams formed by fugitive emissions from the South Isomax pump seals (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) in accordance with the monitoring frequency and standard specified in the AMP in lieu of continuously monitoring the hydrogen sulfide concentration to demonstrate compliance with the sulfur oxide standard in 40 CFR Part 60, Subpart J for fuel gas combustion devices S-4152, S-4155, S-4161, S-4168, and S-4169. (Basis: Regulation 2-1-403)

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Condition 26714

Plant 10 Application 29005

For knockout drum (V-705A) downstream of S-4252/S-4346 and S-4253

1. The owner/operator shall monitor all fugitive components installed at knockout drum (V-705A) and as part of Application 29005 for compliance with Regulation 8, Rule 18 and Regulation 8, Rule 28. (Basis: Cumulative Increase)
2. Not more than 30 days after V-705A, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components: Valves: 112; Flanges: 200; Pump seals: 2; PRD: 2, and check valves: 3. (Basis: Cumulative Increase, offsets)
3. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (Basis: offsets)
4. The owner/operator shall install valves that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18, toxics risk screen)
5. The owner/operator shall install flanges that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18, toxics risk screen)
6. The owner/operator shall install pump seals that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm. (Basis: Regulation 8-18, toxics risk screen)
7. The owner/operator shall ensure pressure relief devices installed on V-705A and as part of Application 29005 are BACT compliant and meet applicable requirements of Regulation 8, Rule 18, and Rule 28. (Basis: Regulation 8-28-302, Regulation 2-1-403)
8. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment installed as part of the project into the facility fugitive equipment monitoring and repair program. (Basis: Regulation 8-18)

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Condition 26721
Plant 10 Application 28492
S-4413 abated by A-4413

1. This Authority to Construct permits the owner/operator to install one Linde® ES Flameless Thermal Oxidizer (A-4413) to abate S-4413 (#2a Separator). The owner/operator of S-4413 shall vent the vapor headspace underneath the fixed roof of the oil water separator through a closed-vent system defined in §60.691 of 40 CFR Part 60, Subpart QQQ “Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems” to the properly installed, maintained and operated A-4413 at all times of operation except during thermal oxidizer maintenance and repair. Except as provided in §60.692-6 and if emissions from the closed-vent system are detected, the owner/operator shall repair the leaking component in the closed-vent system in efforts to eliminate the emissions as soon as practicable, but no later than 30 calendar days from the date the emissions were first detected. (Basis: 40 CFR 60, Subpart QQQ)
2. Within 60-days of installing A-4413 and before routing any refinery process wastewater to S-4413 for further processing from the newly installed process drains at the new hydrogen plant consisting of S-4449 (hydrogen plant train #1), S-4450 (hydrogen plant train #2), S-4451 (hydrogen recovery unit), S-4471 (hydrogen plant train #1 reformer furnace), S-4472 (hydrogen plant train #2 reformer furnace), S-4465 (hydrogen plant cooling tower), and S-6021/A-6021 (hydrogen plant flare) that are part of the Modernization Project, the owner/operator shall conduct District-approved source tests at the closed-vent system of the oil water separator before it ties into A-4413 (before collected vapors are abated). (Basis: Regulation 2-2-604.2)
3. The source tests required by part 2 of this permit condition shall quantify unabated concentrations and mass emissions of POC, benzene, 1,3-butadiene, BTEX, cresols, hexane, naphthalene, phenol, styrene, and ammonia. (Basis: Regulation 2-1-403, 2-2-604.2, 2-5-214.1 and 2-5-214.4)
4. The owner/operator shall conduct two additional District-approved source tests within 180-days of routing refinery wastewater to S-4413 for further processing from the newly installed process drains at the new hydrogen plant when the two new hydrogen plants (S-4449 and S-4450) are collectively producing at least 252 MMSCFD of hydrogen. The first source test shall be conducted at the closed-vent system before it ties into A-4413 (before collected vapors are abated), and the second source test shall be conducted at an emission point downstream of A-4413 (after collected vapors are abated). The above two source tests shall be performed concurrently. (Basis: Regulation 2-2-604.2)
5. The source tests required by part 4 of this permit condition shall quantify unabated and abated concentrations and mass emissions of NOx (abated only), CO (abated only), POC, benzene, 1,3-butadiene, BTEX, cresols, hexane, naphthalene, phenol, styrene, and ammonia, and shall also determine the volatile organic compounds destruction efficiency of A-4413. (Basis: Regulation 2-1-403, 2-2-604.2, 2-5-214.1, 2-5-214.4, 40 CFR 60.692-3(b))
6. For source tests required by parts 2 and 4 of this permit condition, the owner/operator shall monitor, record, and report to the District the following process parameters for each source test run at S-4413/A-4413:
 - i. Duration of the test run
 - ii. Temperature within A-4413

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iii. Refinery wastewater flow into S-4413

iv. Raw % oxygen

The owner/operator shall conduct all source tests required by this Permit Condition under normal/ representative operational conditions unless other conditions are required by the applicable test method or in this permit.

Upon completion of each District-approved source test, the owner/operator shall determine and report the NO_x, CO, POC, benzene, 1,3-butadiene, BTEX, cresols, hexane, naphthalene, phenol, styrene, and ammonia emission factors on a lb/MMGAL basis, the corresponding concentrations measured during each source test run for the above pollutants, and the average of three source test runs for the above pollutants to the District's Source Test Section for review and approval. (Basis: Regulation 2-1-403)

7. Prior to conducting the source tests required by parts 2 and 4 of this Permit Condition, the owner/operator shall submit a source test protocol for approval to the District's Source Test Section. The owner/operator shall notify the Manager of the District's Source Test Section and the District's assigned permit engineer at least seven (7) days prior to the test, to provide the District staff the option of observing the testing. Within 60 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and disposition. The owner/operator shall retain records of source test results and any related correspondence with the District's Source Test Section and the District's assigned permit engineer on-site for at least 5 years from the date of the document, and shall make the records available to District staff for inspection upon request. (Basis: Regulations 2-6-501 and 2-6-503)
8. The owner/operator shall use the emission factors determined via source testing on a lb/MMGAL basis in concert with refinery wastewater throughput into S-4413 recorded for each source test run to determine the corresponding hourly, daily, and annual mass emissions of NO_x, CO, POC, benzene, 1,3-butadiene, BTEX, cresols, hexane, naphthalene, phenol, styrene, and ammonia in lb/hour, lb/day (lb/hour x 24 hours/day), and tons/year (lb/day x 365 days/year ÷ 2000), respectively. The owner/operator shall retain the records of the emission factors, refinery wastewater throughputs, and associated emission calculations on site for five years from the date of entry, and shall make the records available to District staff for inspection upon request. (Basis: Regulations 2-1-403 and 2-6-501)
9. The owner/operator shall first notify the District's assigned Compliance and Enforcement inspector at least 5-working days in advance of taking A-4413 out of service for preventative maintenance purposes. A-4413's preventative maintenance downtime shall not last longer than 20 hours per month and records shall be maintained to document and demonstrate compliance. The 20 hours per month for preventative maintenance is separate and shall not apply to the repair provisions in Part 1 of these Permit Conditions. (Basis: Regulation 2-1-403)
10. Within 30 days after A-4413 ~~A-4413~~ is installed and operating, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components: Valves: 10; Flanges: 12. (Basis: Regulation 2-1-403)
11. The owner/operator shall install valves that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18)

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12. The owner/operator shall install flanges that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. (Basis: Regulation 8-18)

13. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment installed as part of the project into the facility fugitive equipment monitoring and repair program. (Basis: Regulation 8-18)

Condition 26815

Plant 10 Application 29220

S-4481 to 4483

1. The owner/operator shall not exceed the following throughput limit of NALCO Tri-ACT 1805 during any consecutive twelve-month period:

S-4481 = 95 bbl/year

S-4482 = 30.5 bbl/year

S-4483 = 30.5 bbl/year

(Basis: Cumulative Increase)

2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usage in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:

a. Total POC emissions (including fugitive component emissions) from S-4481, S-4482, S-4483 do not exceed 0.402 tons per year in any consecutive twelve month period; and

b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Cumulative Increase; Toxics)

3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:

a. Quantities of each type of liquid stored at this source on a monthly basis.

b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a lb/hour and lb/year basis.

c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period. All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Cumulative Increase; Toxics)

4. Not more than 30 days after the start-up of S-4481, S-4482, S-4483, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components in liquid service: Valves: 72; Flanges: 42; Connectors: 12; Pump seals: 4; PRD: 4.

(Basis: Cumulative Increase, offsets, toxics risk screen)

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5. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.
(Basis: offsets)

6. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(Basis: Regulation 8-18, toxics risk screen)

7. The owner/operator shall install flanges, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(Basis: Regulation 8-18, toxics risk screen)

8. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
(Basis: Regulation 8-18, toxics risk screen)

9. The owner/operator shall ensure pressure relief valves installed comply with and meet applicable requirements of Regulation 8, Rule 5, Rule 18, Rule 28.
(Basis: Regulation 8-5, Regulation 2-1-403)

10. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of S-4481, S-4482, S-4483 into the facility fugitive equipment monitoring and repair program.
(Basis: Regulation 8-18)

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VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Table VII – Abatement (Devices not in Source Tables)

**Table VII – Abatement
 Applicable Limits and Compliance Monitoring Requirements**

Abatement Devices (In Table II-B, but not included in Table IV)

~~A-0094, Thermal oxidizers~~ A-0620, A-0622, A-0623, A-0624, A-0627, A-0628,
Carbon Adsorption Systems A-0629, A-0632, A-0917, A-919, ~~A-0921, A-0920, A-0922~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>A-0094 Thermor Kiln Stack Burner</u>							
POC	8-1-110.3	Y		Abatement of emissions >90% of organic carbon for exemption	condition 20791	C	Temperature monitor
POC	Condition 20791	N		minimum temperature requirement	condition 20791	C	Temperature monitor
<u>A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628 Thermal Oxidizers</u>							
POC	Condition # 8869 Part-s1 and 2	Y		<u>When used for Rule 8-18-110 exemption: shall maintain</u> Minimum temperature of 1500 and 1565 degrees F, <u>and shall ensure</u> minimum VOC destruction efficiency 95% by weight	Condition #8869 Part 3	C	Temperature monitor <u>and continuous flow monitor</u>
H2S	60.104(a)(1) Condition #23201	Y		H2S in fuel gas burned ≤ 230 mg/dscm (0.1 gr/dscf), EXCEPT process upset gases or emergency malfunctions	60.105(a)(3) or 60.105(a)(4) or 60.13(i) Condition #23201	C or P(per alternate monitoring plan)	<u>Records</u> SO ₂ /O ₂ or H ₂ S
<u>A-0629 Carbon Adsorption System</u>							
TOC	Condition # 25703 Part 6, and 7	Y		Minimum TOC destruction efficiency of 95% by weight, Outlet TOC < 210.0 ppmv as C1	Condition # 25703 Part 3	P/D	<u>FID monitor, Records</u>
Flow	Condition # 25703 Part 11	Y		Maximum exhaust flow rate of 4.0 CFM	Condition # 25703 Parts 11 and 12	C	<u>Variable area float gauge, Records</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – Abatement
 Applicable Limits and Compliance Monitoring Requirements**

Abatement Devices (In Table II-B, but not included in Table IV)
A-0094, Thermal oxidizers A-0620, A-0622, A-0623, A-0624, A-0627, A-0628,
Carbon Adsorption Systems A-0629, A-0632, A-0917, A-919, ~~A-0921, A-0920, A-0922~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>A-0632 Carbon Adsorption System</u>							
TOC	Condition # 25835 Part 6 and 9	Y		Minimum TOC destruction efficiency of 95% by weight. Outlet TOC < 10.0 ppmv as C1	Condition # 25835 Part 3	P/D	FID monitor. Records
Flow	Condition # 25835 Part 10	Y		Maximum exhaust flow rate of 4.0 CFM	Condition # 25835 Parts 10 and 11	C	Variable area float gauge. Records
<u>A-0917, A-919, A-0921, A-0920, A-0922 Carbon Drums</u>							
POC	40 CFR 61 FF	Y		95% by weight or greater reduction in total organics, or < 500 ppmv total organics in outlet stream, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene	40 CFR 61 FF	C	OVA/FID monitoring or portabl G/C monitoring

Table VII.A.1.1 Combustion (Cogeneration)

**Table VII.A.1.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Cogeneration

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.1.3 and SIP 9-9-301.3 adjustment pending per 9-9-401.2.2.2	Y		10.8 ppmv @ 15% O ₂ (dry)	BAAQMD and SIP 9-9-501	C	NOx CEM
NOx	BAAQMD 9-9-301.3	N		5 or 9 ppmv @ 15% O ₂ (dry) depending on fuel use	BAAQMD 9-9-501	C	NOx CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.1.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Cogeneration

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.1.3 & SIP 9-9-301.3	Y		25 ppmv @ 15% O ₂ (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods	BAAQMD and SIP 9-9-501	C	NOx CEM
NOx	NSPS 40 cfr 60 Subpart Db, 60.44b (a)(4)(i)	Y		0.20 lb/MMBtu	Condition #1162 Part 8, 12	C	NOx CEM, fuel gas flow meters, calorimeter on fuel gas
NOx	Condition #1162 Part 12	Y		10 ppmv NOx at 15% O ₂ , averaged over any 3-hour period, except during periods of startup and shutdown that shall not exceed two hours and one-half hour respectively	Condition #1162 Part 12	C	NOx CEM and O ₂ or CO ₂ CEM
CO	Condition #1162 Part 10	Y		> 80% CO reduction	Condition #1162 Part 12	C	CO CEM and O ₂ or CO ₂ CEM
POC	Condition #1162 Part 11	Y		> 50% reduction of VOC	Condition #1162 Part 12	C	CO CEM
Sulfur Oxides	9-1-304	Y		Fuel burning (liquid and solid fuels)	9-1-502, 1-520 & 1-522	C	Fuel Analysis
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-601 BAAQMD 6-1-601 condition 22262 part 2	P/M	Visual inspection
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particulates Particles	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	condition 22262 part 1	P/E	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.1.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Cogeneration

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total sulfur in fuel	NSPS 40 cfr 60 Subpart GG, 60.333 (b)	Y		0.8 % total sulfur in fuel by weight	NSPS 40 cfr 60 Subpart GG, 60.334 (h)(3) 40 CFR 60 Subpart GG 60.334(i)(3)(i)(A, B)	None if gaseous fuel meets 40 CFR 60.331(u) natural gas definition. P/A For LPG fuel	Fuel analysis (natural gas exempt)
Sulfur in diesel	Condition #1162 Part 9	Y		0.05% sulfur by weight	Condition #1162 part 9	P/E	Diesel fuel documents
H2S	40 CFR, Subpart J, 60.104(a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
NH3	Condition #1162 Part 18	Y		20 ppm NH3	BAAQMD 2-6-409.2.2	P/A	source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.2.1 Combustion (Flares)

Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU~~ S-6019 Alky-Poly Flare, [S-6021 Hydrogen Plant Flare](#), S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-601 BAAQMD 6-1-601 Condition 18656 part 11 (all but S-6021) For S-6021: Condition 24136 parts 29, 30, 31, 32	P/E	Visual inspection, flowmeter and record keeping
Opacity	Condition #18656 part 14	N		Applies to S-6015 and S-6039. This flare shall only combust process upset gasses or fuel that is released to the flare as a result of relief valve leakage, or other emergency malfunctions. Visible for no more than 5 minutes in any two hours.	Condition 18656 Part 13	P/E	Records
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particulates Particulates	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection
FP	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	condition 18656 parts 10, 11, 12, 13 (all but S-6021) For S-6021: Condition 24136 parts 29, 30, 31, 32 parts 3, 4, 5	P/E	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU~~ S-6019 Alky-Poly Flare, S-6021 Hydrogen Plant Flare, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-311 BAAQMD 6-1-311	Y		<u>TSP weight limits emissions based on process weight rate (lb/hour)</u>	condition 18656 parts 1, 10, 11, 12, 13 (all but S-6021) For S-6021: Condition 24136 parts 29, 30, 31, 32 parts 3, 4, 5-1	P/E	Visual inspection
	Condition #469, #24921 part 5	Y		Smokeless capacity of S-6015 shall not be less than 240,000 lbs/hr	None	N	N/A
<u>Visible emissions</u>	<u>40 CFR 63.670(c)</u>	<u>Y</u>		<u>The owner or operator shall specify the smokeless design capacity of each flare and operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare and the flare vent gas flow rate is less than the smokeless design capacity of the flare. The owner or operator shall monitor for visible emissions from the flare as specified in paragraph 63.670(h).</u>	<u>40 CFR 63.670(h)</u>	<u>P/D/C</u>	<u>Method 22 or video surveillance camera</u>
<u>H2S</u>	<u>40 CFR 60.103a(h)</u>	<u>Y</u>		<u>Shall not burn any fuel gas that contains H₂S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit.</u>	<u>40 CFR 60.107a(a)(2) Condition #24136 Part 33 for S-6021 (total sulfur monitor)</u>	<u>P/E</u>	<u>Composition</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, [S-6017 Alkane Flare, SRU](#) S-6019 Alky-Poly Flare, [S-6021 Hydrogen Plant Flare](#), S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put Limit	Condition #18137	N		See Table IIA	Condition #18137 Part 21	P/M	Recordkeeping
Other Monitoring vent gas flow		N			BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
vent gas composition		N			BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
vent gas composition		N			BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
Presence of a Flame	12-11-50303	N		The flare must be equipped with a monitoring device to detect the presence of a pilot flame.	BAAQMD Regulation 12-11-503 & 12-11-505	P/C	Flame Detector

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare~~, SRU-S-6019 Alky-Poly Flare, ~~S-6021 Hydrogen Plant Flare~~, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Presence of a flame	40 CFR 63.670(b)	<u>Y</u>		Shall operate each flare with a pilot flame present at all times when regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame is present when regulated material is routed to the flare is a deviation of the standard. Deviations in different 15-minute blocks from the same event are considered separate deviations. The owner or operator shall monitor for the presence of a pilot flame as specified in 63.670 (g).	40 CFR 63.670(g)	<u>C</u>	Pilot Flame Detector
		N		None	12-12-501	C	Record water seal pressure and water level
	Condition #13370 BAAQMD 12-11-504	N		purge and pilot gas flow measurements monitoring	BAAQMD Regulation 12-11- 503 , 504 & 12-11-505 Condition #13370 Condition #24136 Part 33 for S-6021	P/C	Purge and pilot Gas Flow Rate
		N			BAAQMD Regulation 12-11-507	P/C	1 frame per minute image video recording
		N	(if any >1E6 SCF/24-hr vent gas flared)		BAAQMD Regulation 12-11-507	P/C	1 frame per minute image video recording

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare~~, SRU-S-6019 Alky-Poly Flare, S-6021 Hydrogen Plant Flare, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Flare tip velocity	40 CFR 63.670(d)	Y		For each flare, the owner or operator shall comply with either 63.670(d)(1) or (2), provided the appropriate monitoring systems are in-place, whenever regulated material is routed to the flare for at least 15-minutes and the flare vent gas flow rate is less than the smokeless design capacity of the flare.	40 CFR 63.670(i) and (j), Condition #24136 Part 27 for S-6021	C	Flow rate and composition
Vent gas flow	Condition #24921 part 1	N		Total combined vent gas flow of S-6010 and/or S-6015 is limited to 170,000lb in any consecutive consecutive 60 min during startups and shutdowns of sources vented to S-6010 and/or S-6015 and 878,900lb/hr during emergency malfunctions	Condition #24921 part 1, BAAQMD Regulation 12-11-501	P/E	Flow rate
Vent gas flow	Condition #24136 Part 28	Y	Post Modernization	For S-6021, vent gas flow to flare is limited to 217,000 lb/hour	Condition #24136 Part 28, BAAQMD Regulation 12-11-501	P/E	Flow rate
Vent gas flow	Condition #24921 part 3	N		Total combined vent gas flow limit of sources vented to S-6015 is 878,900lb/hr during a major power outage	Condition #24921 part 3, BAAQMD Regulation 12-11-501	P/E	Flow Rate
Purge and pilot gas flow	Condition #24921 part 6	N		The flow rate of S-6015's flare pilots is limited to 500 SCF/hr of natural gas. Combined flow rate of S-6015's flare pilot and purge is limited to 2000 SCF/hr of natural gas.	Condition #25921 24921 part 6, BAAQMD Regulation 12-11-504 & 12-11-505	P/C	Purge and pilot gas flow rate
Air Aspiration	Condition #24921 part 7	N		Steam powered air aspiration must be used at all times that vent gas is sent to S-6015	N/A	N/A	N/A
Destruction Efficiency	Condition #24921 part 8	N		Maintain HC and CO destruction efficiency for S-6015 of at least 98% on a mass basis	Condition #24921 part 8	P/C/E	design

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU~~ S-6019 Alky-Poly Flare, S-6021 Hydrogen Plant Flare, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Destruction Efficiency</u>	<u>Condition #24136 Part 26</u>	N	<u>Post Modernization</u>	For S-6021, maintain hydrocarbon and CO destruction efficiency of at least 98% on a mass basis when the gases vented to the flare have minimum LHV > 300 BTU/scf, or at least 93% on a mass basis when the gases vented to the flare have minimum LHV <300 BTU/scf	<u>Condition #24136 Part 26</u>	<u>P/C/E</u>	<u>Design</u>
<u>NOx</u>	<u>Condition #24136 Part 9a</u>	N	<u>Post Modernization</u>	For S-6021, 64.43 tons in any consecutive 12 month period (combined annual limit for S-4471, S-4472 and S-6021)	<u>Condition #24136 Part 33</u>	<u>P/A</u>	<u>Recordkeeping</u>
<u>CO</u>	<u>Condition #24136 Part 9a</u>	N	<u>Post Modernization</u>	For S-6021, 92.28 tons in any consecutive 12 month period (combined annual limit for S-4471, S-4472 and S-6021)	<u>Condition #24136 Part 33</u>	<u>P/A</u>	<u>Recordkeeping</u>
<u>SO2</u>	<u>Condition #24136 Part 9a</u>	N	<u>Post Modernization</u>	For S-6021, 5.25 tons in any consecutive 12 month period (combined annual limit for S-4471, S-4472 and S-6021)	<u>Condition #24136 Part 33</u>	<u>P/A</u>	<u>Recordkeeping</u>
<u>PM10</u>	<u>Condition #24136 Part 9a</u>	N	<u>Post Modernization</u>	For S-6021, 20.98 tons in any consecutive 12 month period (combined annual limit for S-4471, S-4472 and S-6021)	<u>Condition #24136 Part 33</u>	<u>P/A</u>	<u>Recordkeeping</u>
<u>POC</u>	<u>Condition #24136 Part 9a</u>	N	<u>Post Modernization</u>	For S-6021, 28.6 tons in any consecutive 12 month period (combined annual limit for S-4471, S-4472 and S-6021)	<u>Condition #24136 Part 33</u>	<u>P/A</u>	<u>Recordkeeping</u>
	Condition #24921 part 9 and part 10	N		See permit condition available in Section VI	#24921 part 9 & part 10	<u>P/M</u>	<u>Recordkeeping</u>
<u>Fugitive</u>	Condition #24921 parts 12-20	N		Fugitive emissions from S-6015 are to comply with a leak standard of 100ppm TOC at any valves, flanges, and connectors; a maximum of 500ppm TOC at any pumps; and 0.649 tons of POC in any consecutive 365-day period. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24921 part 20 8-18-304	<u>P/M/Q</u>	<u>Recordkeeping</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU~~ S-6019 Alky-Poly Flare, S-6021 Hydrogen Plant Flare, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Fugitives</u>	<u>Condition #24136 Parts 2, 3, 35, and 36</u>	<u>Y</u>	<u>Post Modernization</u>	<u>Fugitive emissions from S-6021 are to comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and connectors installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service. Full permit conditions available in Section VI.</u>	<u>BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24136 Parts 35 and 36</u>	<u>P/M/Q</u>	<u>Recordkeeping</u>
<u>Supplemental natural gas</u> <u>For S-6010, 6012, 6013, 6015, 6016, 6019, 6039</u>	<u>Condition #18656 Parts 3, 5</u>	<u>Y</u>		<u>Exclusively use natural gas and limit hourly and annual natural gas usage for</u> <u>S-6012</u> <u>0.336 MMscf/hr and</u> <u>4.032 MMscf/year</u> <u>S-6013</u> <u>0.336 MMscf/hr and</u> <u>4.032 MMscf/year</u> <u>S-6015</u> <u>0.228 MMscf/hr and</u> <u>2.736 MMscf/year</u> <u>S-6039</u> <u>0.394 MMscf/hr and</u> <u>4.728 MMscf/year</u> <u>S-6016</u> <u>0.336 MMscf/hr and</u> <u>4.032 MMscf/year</u> <u>S-6019</u> <u>0.336 MMscf/hr and</u> <u>4.032 MMscf/year</u> <u>S-6010</u> <u>0.178 MMscf/hr and</u> <u>2.136 MMscf/year</u>	<u>Condition #18656 Part 65</u>	<u>C</u>	<u>Dedicated gas flow monitors for each flare</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, ~~S-6017 Alkane Flare, SRU~~ S-6019 Alky-Poly Flare, S-6021 Hydrogen Plant Flare, S-6039 Flare V-3501

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Supplemental natural gas For S-6010, 6012, 6013, 6015, 6016, 6019, 6039	Condition #18656 Part 4	Y		Comply with all applicable requirements in 40 CFR 63.670 that ensures each flare achieves a hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis	Condition #18656 Parts 8, 9	C	CPMS Recordkeeping
Supplemental natural gas For S-6021	Condition #24136 Parts 119, 121	Y		Exclusively use natural gas and limit annual natural gas usage to <97.8 MMSCF	Condition #24136 Part 122	C	Dedicated gas flow monitor
Supplemental natural gas For S-6021	Condition #24136 Part 120	Y		Comply with all applicable requirements in 40 CFR 63.670 that ensures flare achieves a hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis	Condition #24136 Parts 124, 125	C	CPMS Recordkeeping

Table VII.A.3.1 Combustion furnaces)

**Table VII.A.3.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4107 F-1 Heat Treating Furnace # 1 Boiler Shop (Post Weld Heat Treating Furnace),

~~S-4192 F-2170 Tail Gas Heater #1 SRU, S-4193 F-2270 Tail Gas Heater #2 SRU, S-4194 F-2370 Tail Gas Heater #3 SRU~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-601 BAAQMD 6-1-601	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible <u>Particles</u> Particulates	SIP 6-601 BAAQMD 6-1- 601	P/E	Visual Inspection
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	None
	SIP 6-310.3 BAAQMD 6-1-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.2 Combustion (Furnaces)

Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR, S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO-Boilers) 0.033-lbs NOx/MMBTU	Conditions: #21232 (applies to all but S-4154, S-4158, S-4188, S-4189, S-4068, S-4069) condition #16679-part 4 S-41709-10-502	☐	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N		Refinery-wide emissions (excluding CO-Boilers) 0.033 lbs NOx/MMBTU	#21232-parts 4, 5, 6, 7 applies to S-4154, S-4158, S-4188, S-4189, S-4068, S-4069	P/semi-annual	Source testing
NOx	9-10-301	N		Refinery-wide emissions (excluding CO-Boilers) 0.033 lbs NOx/MMBTU	#8773-Part 3 S-4155 #469-Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	E	CEMs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-303	Y		Federal interim emissions Refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#21232 (applies to all but S-4154, S-4158, S-4188, S-4189, S-4068, S-4069) #16679 Part 4 S-4170 Regulation 9-10-502	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#8773 Part 3 S-4155 #469 Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	C	CEMs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~
 S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#21232 Parts 4, 5, 6, 7 (applies to S-4154, S-4158, S-4188, S-4189, S-4068, S-4069 Regulation 9-10-502	P semi-annual	Source testing

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	9-10-308 and Condition 21232 Part 11	N		Compliance with Alternate NOx Compliance Plan (ANCP) Final Limit: 3,116 lb NOx/day	Regulation 9-10-502 Condition 21232 Part 12	C NOx Box limit for S-4069, 4154, 4158, and 4189 Condition 21232 Part 12 for ANCP (Daily)	NOx/O2 CEMS Condition 21232 Part 12 (Daily records including CEMS data and/or supporting emission calculations for ANCP)

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.026 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4070	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.027 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4071	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.029 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4072	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.035 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4158	P/semi-annual	Source testing

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.040 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4042, S-4043, S-4167, S-4044, S-4045	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.060 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4059	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.068 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4061, S-4062	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.021 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4170	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~
 S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.023 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4171	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.034 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4168	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.033 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4169	C	CEM
NOx	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.035 lbs NOx/MMBtu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4159, S-4160	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~
 S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	60.44(a)(1)			0.2 lb NOx/Mmbtu limit for gaseous fossil fuel burned	9-10-502.1 federal requirement 60.45 subsumed under Reg. 9 Rule 10 see Table IXB S-4070, S-4071, S-4072	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	60.44b(e)			0.1 lb NOx/MMBtu limit for combusting natural gas with waste/byproduct (includes refinery fuel gas)	9-10-502.1 federal requirement 60.48b subsumed under Reg. 9 Rule 10 see Table IXB S-4155	C	CEM
NOx	Condition 21232 part 5			0.035 lbs NOx/MMBtu established as an emission factor for this furnace	#21232 S-4158, S-4154	P Semi-annual	Source test
NOx	Condition #21232-part 5			0.14 NOx/MMBtu established as an emission factor for this furnace	21232 S-4068	P Semi-annual	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Condition #21232 part 5			0.045 NOx/MMBtu established as an emission factor for this furnace	21232 S-4069	P Semi-annual	Source test
NOx	Condition #21232 part 5			0.25 NOx/MMBtu established as an emission factor for this furnace	21232 S-4188, S-4189	P Semi-annual	Source test
NOx	Condition #8773 Part 1a	Y		8.85 lb/hr for S-4155	#8773 Part 1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Condition #469 Part 6.B	Y		8-hour average NOx at 3% O2 shall not exceed 40 ppm	#469 Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339, A-0065, A-0066, A-0067	C	CEM
O2		N	7/1/02	No limit	9-10-502 #21232-part 2 #16679-Part 4 S-4170	C	CEMs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx and O2 (no limit)	Condition #24136 Part 9b	N	Post Modernization	53.28 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 9c, 10	C	CEM O2 monitor
NOx and O2 (no limit)	Condition #24136 Part 14a	Y	Post Modernization	5.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period [applies to S-4471 and S-4472]	Condition #24136 Part 10 and Part 15	C	CEM O2 monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	40 CFR 60 Subpart Ja 60.102a(g)(2)(i)	Y	Post Modernization	60 ppmv (dry basis, corrected to 0-percent excess air) determined daily on a 30-day rolling average basis or 0.060 lb/MMBtu higher heating value basis determined daily on a 30-day rolling average basis [applies to S-4471 and S-4472]	40 CFR 60 Subpart Ja 60.107a(c)	C	CEM
O2	Condition #24136 Part 9 and 14	Y	Post Modernization	No limit [applies to S-4471 and S-4472]	Condition #24136 Part 10	C	O2 monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2	40 CFR 60 Subpart Ja 60.102a(g)(2)(i)	Y	Post Modernization	NOx CEM must include an O2 monitor for correcting the data for excess air [applies to S-4471 and S-4472]	40 CFR 60 Subpart Ja 60.107a(c)	C	O2 monitor
O2		Y		No limit	9-10-502 #21232 part 2 #16679 Part 4 S-4170	C	CEMs
O2		N		No limit	#21232 parts 2 and 4B	C	O2 Monitors and annual accuracy test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2		Y		No limit	#8773 Part 3 S-4155 #469 Part 3.B S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	C	CEMs
O2				No limit	40 CFR 60.46c(a)	C	CEM
CO	9-10-305 #21232	N		400 ppmv (and 200 ppmv for #21232) (dry, 3% O ₂)	#21232 parts 4, 7, 8, 9 9-10-502.1	P/semi-annual	Source testing
CO	Condition #8773 Part 2	Y		50 ppmv [applies to S-4155]	Condition #8773 Part 2	P/semi-annual	source test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO and O2 (no limit)	Condition #24136 Part 9b	N	Post Modernization	64.88 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 9c	C	CEM O2 monitor
CO and O2 (no limit)	Condition #24136 Part 14b	Y	Post Modernization	10.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period [applies to S-4471 and S-4472]	Condition #24136 Part 10 and Part 15	C	CEM O2 monitor
SO2	Condition #24136 Part 9b	N	Post Modernization	4.94 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 9c and Part 11	P/D	On-stream analyzer for total sulfur and continuous fuel flow rate monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	Condition #24136 Part 9b	N	Post Modernization	20.68 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 14	P/D	Recordkeeping
PM10	Condition #24136 Part 14c	Y	Post Modernization	0.0026 lb/MMBtu (HHV), averaged over 3 hours [applies to S-4471 and S-4472]	Condition #24136 Parts 17, 18	Initial P/Q for one year P/SA for the next year P/A after	Source Test
POC	Condition #24136 Part 9b	N	Post Modernization	23.22 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 14	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition #24136 Part 14d	Y	Post Modernization	0.00288 lb/MMBtu (HHV), averaged over 3 hours averaged over 3 hours [applies to S-4471 and S-4472]	Condition #24136 Parts 17, 18	Initial P/Q for one year P/SA for the next year P/A after	Source Test
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visual inspection
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particles/Particulates	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

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S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 6-310.3 BAAQMD 6-1-310.3	Y		0.15 grain/dscf @ 6% O2	None	None	
NH3	Condition #16679 Part 1	N		120 lb NH3/Hr [applies to S-4170]	none	N	None
NH3	Condition #24136 Part 16	Y	Post Modernization	10 ppmv, dry, corrected to 3% oxygen, as verified by District approved source test method, not to exceed three hours averaging time [applies to S-4471/A-0302 and S-4472/A-0303]	Condition #24136 Part 18	Initial and C or Initial P/Q for one year P/SA for the next year P/A after	Initial and CEM or Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Arsenic	Condition #24136 Part 19	N	Post Modernization	6.90 lb/yr each [applies to S-4471 and S-4472]	Condition #24136 Part 20, 116	P/A	Source Test
Cadmium	Condition #24136 Part 19	N	Post Modernization	4.91 lb/yr each [applies to S-4471 and S-4472]	Condition #24136 Part 20, 116	P/A	Source Test
Nickel	Condition #24136 Part 19	N	Post Modernization	40.74 lb/yr each [applies to S-4471 and S-4472]	Condition #24136 Part 20, 116	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
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Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR 60 Subpart J 60.104(a) (1) and Condition #23201	Y		<p>For S-4152, S-4155, S-4161, S-4168, and S-4169*</p> <p>Unless inherently low in sulfur, fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions.</p> <p>*Per January 7, 2019 Chevron letter to District found in Appendix A, Chevron notified US EPA on November 6, 2018 that fuel gas streams classified as inherently low in sulfur and combusted at S-4152, S-4155, S-4161, S-4168, and S-4169 are exempt from H2S</p>	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40-CFR-60 Subpart Ja 60.102a(e)(1)(i)	Y	Post Modernization	Fuel gas H2S concentration limited to 162 ppmv determined hourly on a 3-hour rolling average basis and 60 ppmv determined daily on a 365 successive calendar day rolling average basis [applies to S-4471 and S-4472]	40-CFR-60 Subpart Ja 60.107a(a)(2)	C	CEM
H2S	Condition #8773 Part 5	Y		Fuel gas H2S concentration (V-475) averaged over any 24-hour period shall be limited to 50 ppm [applies to S-4155]	#8773 Part 5	C	H2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

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 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Composition	Condition #24136 Part 7	Y	Post Modernization	Maximum of 30% natural gas of the total annual fuel usage (Btu basis) with the balance being PSA tail gas [applies to S-4471 and S-4472]	Condition #24136 Part 11	C	Continuous Fuel flowmeter
Fuel Flow	Condition #8773 Part 6 [for S-4155]	Y		209 MMBtu/Hr on an annual average basis based on low heating value (LHV) that is equivalent to 230 MMBtu/Hr based on high heating value (HHV)	#8773 Part 6 S-4155	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #16686 Table II A.1 #23872	N, Y for 2387 2		50.5 MMBtu/hr [S-4152] 50.5 MMBtu/hr [S-4154] 68 MMBtu/hr [S-4159] 71 MMBtu/hr [S-4160] 61 MMBtu/hr [S-4161] 61 MMBtu/hr [S-4162] 61 MMBtu/hr [S-4163] 331 MMBtu/hr [S-4168] 820 MMBtu/hr [S-4170] 820 MMBtu/hr [S-4171] 187 MMBtu/Hr [applies for S-4038], 170 MMBtu/Hr [applies for S-4039] 152 MMBtu/Hr [applies for S-4040], 77 MMBtu/Hr [applies for S-4041]	#16686 Part 1, 9-10-502.2, 23872	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Table II A.1	Y		121 MMBtu/Hr [applies for S-4059] 68 MMBtu/Hr [applies for S-4164], 68 MMBtu/Hr [applies for S-4165], 68 MMBtu/Hr [applies for S-4166], 331 MMBtu/Hr [applies for S-4168], 260 MMBtu/Hr [applies for S-4169]	9-10-502.2	C	Fuel flowmeter
Fuel Flow	Table II A.1	Y		144 MMBtu/Hr [applies for S-4060]	9-10-502.2	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #16679 Part 9 and condition 23872 part 2	Y for 23872 only		820 MMBtu/Hr [applies for S-4170]	#16679 Part 10 and condition 23872 part 2 9-10-502.2	C	Fuel flowmeter
Fuel Flow	Condition #16686	Y		398 MMBtu/Hr [applies for S-4070] 405 MMBtu/Hr [applies for S-4071] 336 MMBtu/hr [applies for S-4072]	#16686 9-10-502.2	C	Fuel flowmeter
Fuel Flow	Condition 21232 and Table II.A.1	Y		48 MMBtu/Hr [applies for S-4158]	21232 9-10-502.2	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~
 S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #16686 and Table II A.1	Y		198 MMBtu/Hr [applies for S-4042] 133 MMBtu/Hr [applies for S-4043] 78 MMBtu/Hr [applies for S-4044] 51 MMBtu/Hr [applies for S-4045]	9-10-502.2	C	Fuel flowmeter
Fuel Flow	Condition #18166 Part 3	Y		122 MMBtu/Hr [applies to S-4061] 165 MMBtu/Hr [applies to S-4062]	#18166 Part 2 9-10-502.2	C	Fuel flowmeter
Fuel Flow	Table II a.1	Y		127.5 MMBtu/Hr [applies to S-4068] 145 MMBtu/Hr [applies to S-4167]	9-10-502.2	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #469	Y		337.5 MMBtu/hour [applies to only: S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR]	Condition #469 9-10-502.2	C	fuel flowmeter

Revision Dated: February 28, 2018 August 1, 2014

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, ~~S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A0260 SCR, S-4171 F-355 H2 Reforming Furnace H2 Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #24136 Part 12	N	Post Modernization	8,059,200 MMBTU (HHV) each in any consecutive 12 month period, 950 MMBTUs (HHV)/hr each averaged over any calendar day [applies to S-4471 and S-4472]	Condition #24136 Parts 11, 37	C	Continuous Fuel flowmeter
Temperature	Condition #24136 Part 16	Y	Post Modernization	For A-0302 and A-0303, maintain catalyst bed temperature > 500 °F except during startup, shutdown, or dryout/warmup	Condition #24136 Part 16a	C	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply

~~S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR~~

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H₂ Reforming Furnace H₂ Plant Isomax abated by A0260 SCR, S-4171 F-355 H₂ Reforming Furnace H₂ Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #24136 Parts 2, 3, 35, and 36	Y	Post Modernization	Fugitive emissions from S-4471 and S-4472 are to comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and connectors installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24136 Parts 35 and 36	P/M/Q	Recordkeeping

Table VII.A.3.3 Combustion (Furnaces)

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type

Table VII.A.3.3 Combustion
Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>NOx and O2 (no limit)</u>	<u>Condition #24136 Part 9b</u>	<u>N</u>		<u>53.28 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]</u>	<u>Condition #24136 Part 9c, 10</u>	<u>C</u>	<u>CEM O2 monitor</u>
<u>NOx and O2 (no limit)</u>	<u>Condition #24136 Part 14a</u>	<u>Y</u>		<u>5.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period [applies to S-4471 and S-4472]</u>	<u>Condition #24136 Part 10 and Part 15</u>	<u>C</u>	<u>CEM O2 monitor</u>
<u>NOx</u>	<u>40 CFR 60 Subpart Ja 60.102a(g)(2)(i)</u>	<u>Y</u>		<u>60 ppmv (dry basis, corrected to 0-percent excess air) determined daily on a 30-day rolling average basis or 0.060 lb/MMBtu higher heating value basis determined daily on a 30-day rolling average basis [applies to S-4471 and S-4472]</u>	<u>40 CFR 60 Subpart Ja 60.107a(c)</u>	<u>C</u>	<u>CEM</u>
<u>O2</u>	<u>Condition #24136 Part 9 and 14</u>	<u>Y</u>		<u>No limit [applies to S-4471 and S-4472]</u>	<u>Condition #24136 Part 10</u>	<u>C</u>	<u>O2 monitor</u>
<u>O2</u>	<u>40 CFR 60 Subpart Ja 60.102a(g)(2)(i)</u>	<u>Y</u>		<u>NOx CEM must include an O2 monitor for correcting the data for excess air [applies to S-4471 and S-4472]</u>	<u>40 CFR 60 Subpart Ja 60.107a(c)</u>	<u>C</u>	<u>O2 monitor</u>
<u>CO and O2 (no limit)</u>	<u>Condition #24136 Part 9b</u>	<u>N</u>		<u>64.88 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]</u>	<u>Condition #24136 Part 9c, 10</u>	<u>C</u>	<u>CEM O2 monitor</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.3 Combustion
Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
CO and O2 (no limit)	Condition #24136 Part 14b	Y		10.0 ppmv, dry, corrected to 3% oxygen, averaged over any 1 hour period [applies to S-4471 and S-4472]	Condition #24136 Part 10 and Part 15	C	CEM O2 monitor
SO2	Condition #24136 Part 9b	N		4.94 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Part 9c and Part 11	P/D	On-stream analyzer for total sulfur and continuous fuel flow rate monitor
PM10	Condition #24136 Part 9b	N		20.68 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Parts 17, 18	Initial w/in 120-days of startup; P/Q for one year; P/SA for the following year; P/A third year and after	Source Test
PM10	Condition #24136 Part 14c, 15	Y		0.0026 lb/MMBtu (HHV), averaged over 3 hours [applies to S-4471 and S-4472]	Condition #24136 Parts 17, 18	Initial w/in 120-days of startup; P/Q for one year; P/SA for the following year; P/A third year and after	Source Test
POC	Condition #24136 Part 9b	N		23.22 tons in any consecutive 12 month period [combined annual limit from S-4471, S-4472]	Condition #24136 Parts 17, 18	Initial w/in 120-days of startup; P/Q for one year; P/SA for the following year; P/A third year and after	Source Test
POC	Condition #24136 Part 14d, 15	Y		0.00288 lb/MMBtu (HHV), averaged over 3 hours averaged over 3 hours [applies to S-4471 and S-4472]	Condition #24136 Parts 17, 18	Initial w/in 120-days of startup; P/Q for one year; P/SA for the following year; P/A third year and after	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.3 Combustion
 Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NH3	<u>Condition #24136 Part 16</u>	Y		10 ppmv, dry, corrected to 3% oxygen, as verified by District approved source test method, not to exceed three hours averaging time [applies to S-4471/A-0302 and S-4472/A-0303]	<u>Condition #24136 Parts 17, 18</u>	Part 18.a. Initial w/in 120-days of startup/reference test to demo accuracy of NH3 CEM Or Part 18.b. Initial w/in 120-days of startup; P/Q for one year; P/SA for the following year; P/A third year and after	Initial/reference source test and CEM or Source Test
Arsenic	<u>Condition #24136 Part 19</u>	N		6.90 lb/yr/source [applies to S-4471 and S-4472]	<u>Condition #24136 Part 20, 116</u>	P/A	Source Test
Cadmium	<u>Condition #24136 Part 19</u>	N		4.91 lb/yr/source [applies to S-4471 and S-4472]	<u>Condition #24136 Part 20, 116</u>	P/A	Source Test
Nickel	<u>Condition #24136 Part 19</u>	N		40.74 lb/yr/source [applies to S-4471 and S-4472]	<u>Condition #24136 Part 20, 116</u>	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.3 Combustion
 Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
 S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
H2S	40 CFR 60 Subpart Ja 60.102 a(g)(1)(ii)	Y		For S-4471, S-4472* Unless inherently low in sulfur, fuel gas H2S concentration limited to 162 ppmv determined hourly on a 3-hour rolling average basis and 60 ppmv determined daily on a 365 successive calendar day rolling average basis [applies to S-4471 and S-4472] *Per Chevron letters to US EPA Region 9 dated November 26, 2018 and January 9, 2019 found in Appendix A, Chevron notified US EPA that per 40 CFR 60.107a(a)(3) fuel gas streams considered inherently low in sulfur and combusted at S-4471 and S-4472 are exempt from the SO2 and H2S monitoring requirements in 40 CFR 60.107a(a)(1) and (2).	40 CFR 60 Subpart Ja 60.107a(a)(2)	C	CEM
Fuel Composition	Condition #24136 Part 7	Y		Maximum of 30% natural gas of the total annual fuel usage (Btu basis) with the balance being PSA tail gas [applies to S-4471 and S-4472]	Condition #24136 Part 11	C	Continuous Fuel flowmeter and recorder
Fuel Flow	Condition #24136 Part 12	N		8,059,200 MMBTU (HHV) each in any consecutive 12-month period, 950 MMBTUs (HHV)/hr each averaged over any calendar day [applies to S-4471 and S-4472]	Condition #24136 Parts 11, 37.b.	C	Continuous Fuel flowmeter and recorder

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.3 Combustion
Applicable Limits and Compliance Monitoring Requirements

Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J don't apply

S-4471 Hydrogen Plant Train #1 Reformer Furnace abated by A-0302,
S-4472 Hydrogen Plant Train #2 Reformer Furnace abated by A-0303

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
• Fugitives	Condition #24136 Parts 2, 3, 35, and 36	Y		Fugitive emissions from S-4471 and S-4472 are to comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and connectors installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24136 Parts 35 and 36	P/M/Q	Recordkeeping

Table VII.A.3.5 Combustion (Furnace)

Table VII.A.3.5 Combustion
Applicable Limits and Compliance Monitoring Requirements

Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply

S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO-2000)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx	Condition #469 Part 6 E2	Y		20 ppmv NOx limit	#469 Part 6 E4	P Annual	Source testing
CO	Condition #469 Part 6 E3	Y		50 ppmv CO limit	#469 Part 6 E4	P -Annual	Source test
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-601 BAAQMD 6-1-601	N	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.5 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply

S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO-2000)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP-6-305 BAAQMD 6-1-305	Y		Visible-Particulates	SIP-6-601 BAAQMD-6-1-601	P/E	Visual Inspection
	SIP-6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	None
	SIP-6-310.3 BAAQMD 6-1-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	None
H ₂ S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel-gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4)	C	H ₂ S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.4.1 Combustion (Engines)

Table VII.A.4.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements

Internal Combustion Engines

~~S-3235 Emergency Standby Diesel Storm Water Pump Engine, S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, IC ENGINE S-7511 IC ENGINE, S-7512 IC ENGINE, S-7513 IC ENGINE, S-7514 IC ENGINE, S-7515 IC ENGINE, S-7516 IC ENGINE, S-7517 IC ENGINE, S-7521 IC ENGINE, S-7523 IC ENGINE, S-7531 IC ENGINE, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Emergency Fire Pump Diesel Engine, S-7536 Emergency Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines,~~

~~S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine Engines under 250 hp S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-303.1 BAAQMD 6-1-303.1	Y		Ringelmann No. 2 for > 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particles Particulates		N	
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	N/A
SO2	9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	9-1-602	P	Fuel certification
Records	9-8-330 Condition 20225	N		Hours of Operation (applies to S-7501 IC Engine, S-7507 IC Engine, S-7511 IC Engine, S-7512 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7521 IC Engine, and S-7531 IC Engine only)	9-8-530 -Condition-20225	P/M	Recordkeeping
Records	Condition 22569	N		S-7013 Standby Generator Diesel Engine	Condition 22569 part 3	P/M	Record-keeping
Records	Condition 22820	n		S-7501, S-7507, S-7508, S-7509, S-7511, S-7512, S-7515, S-7516, S-7517, S-7521, and S-7531 S-7515 AND S-7516	CONDITION 22820 PART 3	P/M	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.4.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Internal Combustion Engines

S-3235 Emergency Standby Diesel Storm Water Pump Engine, ~~S-4401 Ranch Area Maintenance Yard Prime Diesel Engine Generator~~, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, IC ENGINE S-7511 IC ENGINE, S-7512 IC ENGINE, S-7513 IC ENGINE, S-7514 IC ENGINE, S-7515 IC ENGINE, S-7516 IC ENGINE, S-7517 IC ENGINE, S-7521 IC ENGINE, S-7523 IC ENGINE, S-7531 IC ENGINE, S-7534 Plant Protection Emergency Standby Generator Diesel Engine, S-7535 Emergency Fire Pump Diesel Engine, S-7536 Emergency Fire Pump Diesel Engine, S-7538 Diesel Engine (GEN 5H2S-1), S-7539 Diesel Engine, ~~S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines,~~

~~S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, S-7537 Primary FCCU Pump Diesel Engine Engines under 250 hp
 S-7541, S-7542, and S-7543 Emergency Standby Diesel Fire Pump Engines~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Records	Condition 22850 part 1	N		S-3235, S-7534, S-7535, S-7536, S-7538, S-7539, S-7541, S-7542, S-7543, S-7013	Condition 22850 part 4	P/M	Record Keeping
Records	Condition 24022	N		S-7537	Condition 24022 part 5	P/M	Record Keeping
Records	Condition 24070	N		S-7513, S-7514, S-7523,	Condition 24070 part 5	P/M	Record keeping
Backpressure	Condition 24285	N		S-7539	Condition 24285 part 2	P/E	Recordkeeping of corrective action
Fuel usage	Condition 24285 part 3	N		LOW SULFUR DIESEL ONLY	Condition 24285 part 3	P/M	recordkeeping
Diesel exhaust PM emission rate or mass rate emissions limit	Condition 26127 part 1	N		Diesel particulate matter emission rate <0.01 g/kW-hour or <0.00458 lbs/hour for S-4401	Condition 26127 part 2	P	Initial and periodic source tests, and recordkeep source test results

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.5.1 Combustion (Boilers)

**Table VII.A.5.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb Steam Boiler No. 4,
 S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	9-10-301	N		Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NO_x/MMBTU	Conditions: #21232 Part 9-10-502	C	CEMs
NO _x	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NO _x /MMBTU	Conditions: #21232 Part 1 Regulation 9-10-502	C	CEMs
NO _x	9-10-308 and Condition 21232 Part 11	N		Compliance with Alternate NO_x Compliance Plan (ANCP) Final Limit: 3,116 lb NO_x/day	9-10-502 and Condition 21232 Part 12	C Condition 21232 Part 12 for ANCP (Daily)	NO_x/O₂ CEMS Condition 21232 Part 12 (Daily records including CEMS data and/or supporting emission calculations for ANCP)
NO _x	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.031 lbs NO _x /MMBTu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4132	C	CEM
NO _x	Consent decree sections F.33 & F.36 and P/O condition 23872 parts 1 and 3	Y		0.033 lbs NO _x /MMBTu	Consent decree Sections F.38 & F.39 and P/O conditions 23872 part 3 for S-4129, S-4135	C	CEM
O ₂		Y		none	9-10-502 #21232 Part 2	C	CEMs and annual accuracy test
CO	9-10-305 #21232	N		400 ppmv (and 200 ppmv for #21232) (dry, 3% O ₂)	#21232 parts 4,7,8,9 9-10-502.1	P/ semi-annual	Source testing

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.5.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements**

Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb Steam Boiler No. 4,
 S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particulates	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	None
	SIP 6-310.3 BAAQMD 6-1-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	None
Fuel flow	Table II A.1			5592 MMBtu/day =233 MMBtu/hr [applies to S-4129 only]	Table II A.1 9-10-502.2	C	Fuel flowmeter
Fuel flow	Table II A.1 #16686			5664 MMBtu/day =236 MMBtu/hr [applies to S-4131 only]	16686 9-10-502.2	C	Fuel flowmeter
Fuel flow	Conditions #16686			5640 MMBtu/day =235 MMBtu/hr {applies to S-4132 only]	#16686 9-10-502.2	C	Fuel flowmeter
Fuel flow	Condition #16686			5688 MMBtu/day =237 MMBtu/hr [applies to S-4133 only]	16686 9-10-502.2	C	Fuel flowmeter
Fuel flow	Table II A.1			6528 MMBtu/day =272 MMBtu/Hr [applies to S-4135 only]	Table II A.1 9-10-502.2	C	Fuel flowmeter
H2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4)	C	H2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.B.1.1 Loading Terminals (Asphalt)

**Table VII.B.1.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Asphalt

S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Racks abated by A-4241 Mist Eliminator, S-4415 Asphalt Tank Truck Loading Rack abated by A-37 Mist Eliminator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-15-305, 8-15-301 – 8-15-304, & 8-15-112			VOC content of asphalt	8-15-501	P/E	Recordkeeping
Opacity	SIP 6-301 BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particles Particulates	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection
	SIP 6-310 BAAQMD 6-1-310	Y		0.15 gr/dscf	None	N	N/A
	Condition #1331 Part 2			For S-4415, loading limit of 238,000 gpd when A-0037 is down	Condition #1331 Part 3	P/D	RecordKeeping (Daily throughput)
Refinery Cap	Condition #469	Y					

Table VII.B.2.1 Loading Terminals (Gasoline)

**Table VII.B.2.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.2.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-7-301.6 and 8-7-302.5	Y		Vapor recovery equipment shall be leak-free and vapor tight	BAAQMD Regulation 8-7-301.13	P/A	Vapor tightness test
VOC	8-7-301.10	Y		98% or highest vapor recovery rate specified by CARB	Regulation 8-7-304 Regulation 8-7-503	P/6 months	Recordkeeping and CARB certification testing
VOC	None			None	BAAQMD Regulation 8-7-302.14	P/A	Backpressure test
VOC	None	N		0.95<V/L<1.15	BAAQMD Regulation 8-7-302.15 CARB E.O.VR-201	P/A	V/L test
VOC	8-7-313.1	Y		Fugitives ≤ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
VOC	8-7-313.2	Y		Spillage ≤ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
VOC	8-7-313.3	Y		Liquid Retain + Spitting ≤ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
	None	Y		None	8-7-503	P/A	Recordkeeping
VOC	8-7-301.2	Y		95% recovery of gasoline vapors	8-7-503 and condition 18680	P/6 months	Recordkeeping and CARB certification testing–
Throughput	Part 1 of Condition 7880	N		Annual throughput	None	N	N/A
	Condition 18680	N		Phase 1 operating conditions	Condition 18680 part 2	P/every 3 years	Torque and leak tests
	Condition 22951	N		Phase II operating conditions	Condition 22951 part 4	P/A	V/L test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.2.1 Loading Terminals
Applicable Limits and Compliance Monitoring Requirements**

Gasoline

S-9304 Gasoline Dispensing Facility

Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition 24294	N		Phase I and II operating conditions	Condition 24294 part 7	P/A	V/L test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.B.3.1 Loading Terminals (LPG)

**Table VII.B.3.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

LPG

S-4238 Liquefied Petroleum Gas Loading Rack, 15 Pumps

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Refinery Cap	Condition #469	Y					

Table VII.B.4.1 Loading Terminals (Wax)

**Table VII.B.4.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Wax

S-4239 Main Tank Car Loading Rack, S-4405 Heavy Oil Transloading Operation

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-6-301 and condition 20863 part 5(applies to S-4405)	Y		21 g/cubic meter (0.17 lb/1000 gallons)	CARB Certification	P/ 6 months; throughput limit revision	Source test, recordkeeping
	8-6-302.1	Y		44 g/cubic meter (0.35 lb/1000 gallons)	CARB Certification	P/ 6 months; throughput limit revision	Source test, recordkeeping
	8-6-302.2	Y		Submerged fill pipe, bottom filling, or a vapor loss control system	None	N	N/A
Throughput	Condition 20863 parts 1 and 2	N		Annual and daily throughput limits	Condition 20863 part 8	P/D	Recordkeeping
Vapor Pressure	Condition 20863 part 3	N		Vapor pressure not to exceed 1.13 psia	Condition 20863 part 8	P/D	Recordkeeping
Benzene	Condition 20863 part 4	N		Benzene not to exceed 3% by weight	Condition 20863 part 8	P/D	Recordkeeping
Refinery Cap	Condition #469	Y					

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.B.5.1 Loading Terminals (Wharf)

**Table VII.B.5.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-44-301.1	Y		POC emissions < 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or 8-44-301.2	Regulation 8-44-502 For S-4315 only	P/E	Provide test data upon request of the APCO
POC	SIP 8-44-301.1	Y		POC emissions ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or 8-44-301.2	Condition #4714 S-9322, S-9323, S-9324, S-9325	P/E	Calculation based on temperature, pressure, hydrocarbons, and flow
POC	SIP 8-44-301.2 & SIP 8-44-305	Y		Controlled emissions ≥ 95% by weight	Condition # 4714 S-9322, S-9323, S-9324, S-9325	C	Calculation based on temperature, pressure, hydrocarbons, and flow
POC	SIP 8-44-303	Y		Leak free and gas tight	40 CFR 63, 563(a)(4)	P/E	Leak test
POC	BAAQMD 8-44-304.1	N		POC emissions ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded	BAAQ MD 8-44-504 For S-4315 only	P/E	Provide test data upon request of the APCO
POC	AAQMD 8-44-304.1	N		Controlled emissions ≥ 95% by weight	Condition # 4714 S-9322, S-9323, S-9324, S-9325	C	Calculation based on temperature, pressure, hydrocarbons, and flow
Refinery cap	Condition #469	Y					
POC	<u>Condition #4714</u>	<u>N</u>		<u>Controlled emissions > 95% by weight</u>	<u>Condition # 4714 S-9322, S-9323, S-9324, S-9325</u>	<u>C</u>	<u>Calculation based on temperature, pressure, hydrocarbons, and flow</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.5.1 Loading Terminals
 Applicable Limits and Compliance Monitoring Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
H2S	40 CFR 60 Subpart J 60.104(a)(1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
Condition #23201		Applies to A-0900					
Part 1		Source subjects to NSPS Subparts A and J					

Table VII.C.1.1 Process Units (Cooling Water Towers)

**Table VII.C.1.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #4Cat, S-4172 Isomax, S-4173 FCC, S-4187 FCC Polymer, S-4191 SRU, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-301 and BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/M	Measurement of total dissolved solids

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.1.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #4Cat, S-4172 Isomax, S-4173 FCC, S-4187 FCC Polymer, S-4191 SRU, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-305 and BAAQMD 6-1-305	Y		Visible Particulates	SIP 6-601 and BAAQMD 6-1-601	P/E	Visual Inspection
FP	SIP 6-311 and BAAQMD 6-1-311	Y		TSP weight limits $4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	none	P/M	Measurement of total dissolved solids
VOC	BAAQMD 11-10-204.1 (all but S-4465) OR	N		Leak action level not to exceed 84 ppb, weight in the cooling water OR	BAAQMD 11-10-304.1 11-10-603 11-10-604 OR	P/W OR	Sample analysis OR
					11-10-304.2 11-10-602	C	VOC Analyzer
VOC	BAAQMD 11-10-204.2	N		Leak action level not to exceed 6 ppm, volume in the stripped air	11-10-304.2 11-10-602 OR	C OR	VOC Analyzer OR
					11-10-304.3	TBD	Alternate method with APCO approval
VOC	BAAQMD 11-10-204.1 (S-4465) OR BAAQMD 11-10-204.2	N		Leak action level not to exceed 42 ppb, weight in the cooling water	BAAQMD 11-10-304.1 11-10-603 11-10-604	P/W	Sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.1.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #4Cat, S-4172 Isomax, S-4173 FCC, S-4187 FCC Polymer, S-4191 SRU, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	NESHAP 40 CFR 63 Subpart CC 63.654(c)(4) (all but S-4465)	Y		Action Level: Total strippable VOC (as CH4) < 6.2 ppmv for monthly monitoring per (c)(4)(i) OR < 3.1 ppmv for quarterly monitoring per (c)(4)(ii) OR Cooling tower not in organic HAP service* *Chevron contends S-4187, S-4191, and S-6051 are not in OHAP service.	NESHAP 40 CFR 63.654(c)(3) 63.654(c)(1)(i) 63.654(c)(1)(ii) 63.655(g)(9) 63.655(i)(5) 63.655(i)(6) OR Cooling tower not in organic HAP service	P/M or Q, Records OR Cooling tower not in organic HAP service	Sample analysis, Records, and Reports OR Cooling tower not in organic HAP service
VOC	NESHAP 40 CFR 63 Subpart CC 63.654(c)(5) (S-4465)	Y		Action Level: Total strippable VOC (as CH4) < 3.1 ppmv for monthly monitoring per (c)(5) OR Cooling tower not in organic HAP service* *Chevron contends S-4465 is not in OHAP service.	NESHAP 40 CFR 63.654(c)(1)(i) 63.654(c)(1)(ii) 63.654(c)(3) 63.655(g)(9) 63.655(i)(5) 63.655(i)(6) OR Cooling tower not in organic HAP service	P/M, Records OR Cooling tower not in organic HAP service	Sample analysis, Records, and Reports OR Cooling tower not in organic HAP service
TDS	Condition #14596 Part 2	Y		For S-6051, TDS < 2000 ppm (wt) averaged over any consecutive 30-day period	Condition #14596 Part 6	P/M	monthly tests of TDS
TDS	Condition #24136 Part 23	N	Post Modernization	For S-4465, TDS < 5000 mg/L	Condition #24136 Part 37g	P/M	Monthly sampling and testing of cooling water to determine TDS content
PM10	Condition #24136 Part 23	N	Post Modernization	For S-4465, PM10 emissions shall not exceed 10.8 lbs per day or 1.97 tons per year	Condition #24136 Part 37g	P/D	Emission calculations and Recordkeeping
POC	Condition 14596 Part 1	Y	6/1/4	For S-6051, POC < 30.2 lb/day averaged over any consecutive 12 month period	Condition #14596 Part 7	C	Hydrocarbon analyzer and flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.1.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #4Cat, S-4172 Isomax, S-4173 FCC, S-4187 FCC Polymer, S-4191 SRU, S-4329 RLOP Cooling Tower, S-4465 Hydrogen Plant Cooling Tower, S-6051 ALKY Cooling Tower S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition #24136 Part 25	Y	Post Modernization	For S-4465, POC <36.0 lb/day or 0.27 tons/year	Condition #24136 Part 25	P/D	District approved method to check for hydrocarbon leaks
Through put	Condition #24136 Part 21	N	Post Modernization	For S-4465, < 51,840,000 gallons per calendar day of cooling water tower recirculation rate	Condition #24136 Part 37f	P/D	Flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units (Miscellaneous Process Units)

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput limit	Condition #469 Part 5	Y		Applies to S-4340 not to exceed 16,500 barrels/operating day Applies to S-4341 not to exceed 22,000 barrels/operating day Applies to S-4342 not to exceed 26,000 barrels/operating day Applies to S-4343 not to exceed 12,000 barrels/operating day Applies to S-4253 not to exceed 65,000 barrels/operating day	Condition #469 Part 6	P/Daily	Daily records recorded on a monthly basis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput limit	Condition #22979 Part 1 and 2	Y		Applies to S-4250 not to exceed 181.1 MMSCF/operating day, and not to exceed 66,102 MMSCF/year	Condition # 22979 Part 3	P/daily	Daily recorded on a monthly basis
Throughput limit	Condition #22641 Part 5	Y		Applies to S-4226	Condition # 22641 Part 7	P/daily	Recordkeeping
	Condition #8180	Y		Applies to S-4235			
	Condition #9048	Y		Applies to S-4253	#9048	P/M	Recordkeeping
	Condition #13369	Y		Applies to S-4355, S-4348 , S-4346			
	Condition #14701	Y		Applies to S-4355	#14701	P/D for S-4291	Recordkeeping
	Condition #18337	Y		Applies to S-4354 and S-4360	#18337	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput limit	Condition #24136 Part 80	N	Post Modernization	Applies to S-4253 not to exceed 29,200 kbbl feed material over any consecutive 12-month period, 80,000 bbl feed material per day on an annual average basis, 96,000 bbl feed material per calendar day	Condition #24136 Part 110	P/D	Recordkeeping
Throughput limit	Condition #24136 Part 5	N	Post Modernization	Applies to S-4449 and S-4450. 140 MMSCF of hydrogen for each train, calendar day maximum; 244 MMSCF of hydrogen per calendar day for both trains combined on an annual average basis	Condition #24136 Part 38	P/D	Recordkeeping
Throughput limit	Condition #24136 Part 6	N	Post Modernization	Applies to S-4451. 50 MMSCF of hydrogen, calendar day maximum	Condition #24136 Part 38	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #24136 Parts 2, 3, 35, and 36	Y	Post Modernization	Fugitive emissions from S-4449, S-4450, and S-4451 are to comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and connectors installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service. Full permit conditions available in Section VI .	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24136 Parts 35 and 36	P/M/Q	Recordkeeping
	Condition #20944	N		Applies to S-4292	#20944	P/D	Recordkeeping
	Condition #6001	Y		Applies to S-4286			
NOx	Condition 8773-part 1	Y		8.85 #/hr	#8773-part 1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Condition 8773-part-2	Y		50 ppm-CO	#8773-part-2	P/initial-source test	Source test
H2S	Condition #8773-part-5	Y		50 ppm	Condition-#8773-part-5	C	CEM
O2	Condition #8773	Y		None	#8773-part-3	C	CEM
POC	Condition #15698, Regulation 8-2	Y		Applies to S-4250 Emission <15 lbs C/day or <300 ppm C-dry, 3-hr average, water-temp <90F, 3-hr average vent flow <5 Klb/hr, 3-hr average water flow >30 gpm, water/vent flow ratio >11.6	#15698-parts 8 and 9 Regulation-8-2	P/A and P/M	Annual source testing and Recordkeeping
POC	BAAQMD 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP)	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC Fugitives	Condition #24136 Parts 2, 3, 35, and 36	Y	Post Modernization	Fugitive emissions from S-4449, S-4450, and S-4451 are to comply with a leak standard of 100 ppm of TOC (measured as C1) at any valves, flanges, and connectors installed as part of the Hydrogen Plant in RPG, RFG, natural gas, methane, and/or process gas service. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24136 Parts 35 and 36	P/M/Q	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD & SIP 8-18-301	Y		Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-302	Y		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	<u>BAAQMD</u> <u>8-18-302</u>	N		<u>Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u>	<u>BAAQMD</u> <u>8-18-306,</u> <u>8-18-401,</u> <u>8-18-402,</u> <u>8-18-404,</u> <u>8-18-501,</u> <u>8-18-502, and</u> <u>8-18-602</u>	P/Q or A	<u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u>
POC	<u>SIP</u> <u>8-18-303</u>	Y		<u>Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u>	<u>SIP 8-18-306,</u> <u>8-18-401,</u> <u>8-18-402,</u> <u>8-18-403,</u> <u>8-18-501,</u> <u>8-18-502, and</u> <u>BAAQMD</u> <u>8-18-602</u>	<u>P/D – visual inspection and Q - monitoring</u>	<u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-18-303	N		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-404 (pumps only), 8-18-501, 8-18-502, and 8-18-602	P/D – visual inspection and Q or A (pumps only) - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-304	Y		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-18-304	N		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	BAAQMD 8-18-401, 8-18-402, 8-18-501, 8-18-502, and 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD & SIP 8-18-305	N/Y		Pressure release devices that leak > 500 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 15 days or if the leak is discovered by an APCO and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-18-306	Y		Limitations on non-repairable equipment	SIP 8-18-501, 8-18-502, and BAAQMD 8-18-602, and 8-18-604	P/5 years or next turnaround	Records And Sampling
POC	BAAQMD 8-18-306	N		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502, 8-18-503 and 8-18-602, and 8-18-604	P/5 years or next turnaround	Records And Sampling
POC	BAAQMD & SIP 8-18-307 and 8-18-211	Y		Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-18-309.3	N		<= 100 ppm at open end of second valve when double block and bleed system is not in use	BAAQMD 8-18-401.2	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD 8-18-310	N		Valve, pump, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead	BAAQMD 8-18-407	P/M	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD 8-18-311	N		Mass emission rate <= 5 lbs/day for any equipment except during repair periods	BAAQMD 8-18-604	P/E	Mass Emission Sampling

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-28-303	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight OR Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-404 , 8-28-405 , 8-28-502 and 8-28-602	C	Records and testing with approved methods
POC	BAAQMD 8-28-303	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight OR Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-404 , 8-28-405 , 8-28-502 and 8-28-602	C	Records and testing with approved methods

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD & SIP 8-28-304	Y		If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, 8-28-404, 8-28-405, and 8-28-502	P/E	Reporting and prescribed measures.

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic HAP	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1566(a)	Y		Applicable emission limitations in Table 15: each site-specific emission limit in Table 16 Note: CRUs (S-4237 and 4283) are not subject to organic HAP requirements in §63.1566 per 63.1562(f)(5) because de-pressure and purge gases from the CRUs are routed to a fuel gas system. Gases from the fuel gas system are routed to the South Yard relief system consisting of the LSFO (S-6010) and D&R (S-6015) flares. The District granted Chevron an extension until January 30, 2020 for the above flares to come into compliance with the MACT CC flare requirements in §63.670.	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1566(c)(1)		Use methods specified in Tables 20 and 21 to demonstrate compliance with each emission limitation in Tables 15 and 16

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic HAP	Refinery <u>MACT2, 40 CFR 63 subpart UUU, 63.1566(a)(3)</u>	<u>Y</u>		<u>Work Practice Standards</u> <u>Note: CRUs (S-4237 and 4283) are not subject to organic HAP requirements in §63.1566 per 63.1562(f)(5) because de-pressure and purge gases from the CRUs are routed to a fuel gas system. Gases from the fuel gas system are routed to the South Yard relief system consisting of the LSFO (S-6010) and D&R (S-6015) flares. The District granted Chevron an extension until January 30, 2020 for the above flares to come into compliance with the MACT CC flare requirements in §63.670.</u>	<u>Refinery MACT2, 40 CFR 63 subpart UUU, 63.1566(c)(2)</u>		<u>Comply with procedures in OMMP</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(a)(1)	Y		+ or > 92% reduction in HCl or = or < 30 ppmv* HCl <u>regenerator exhaust gas</u> (dry basis) emitted corrected to 3% O2 (applies to S-4237 & S-4283 <u>semi-regenerative catalyst-regene exhaust gas</u> CRU) <u>Note: The initial source test at the CRUs established a site specific HCl daily average operating limit of 27 ppmv as measured by colormetric tube sampling system per Equation 4 in §63.1567 in the catalyst regenerator exhaust gas.</u>	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(b)(2) <u>63.1567(c)</u> <u>63.1570(c)</u> <u>63.1572(e)</u> <u>63.1572(d)</u> <u>63.1575(a)</u> <u>63.1575(b)</u> <u>63.1575(c)</u> <u>63.1575(d)</u> <u>63.1576(a)</u> <u>63.1576(b)</u> <u>63.1576(d)</u> <u>63.1576(f)</u> <u>63.1576(g)</u> <u>63.1576(h)</u>	P/initial source test (during coke burn off & catalyst rejuvenation) <u>P/Semi-Annual (compliance report); and C-(parameter monitoring, maintain records)</u>	Source test <u>Continuous alkalinity or pH and water/gas flow monitors; Performance test, Records, and reports</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(a)(2)	Y		Site specific daily average operating limit of 27 (ppmv (dry basis), corrected to 3% oxygen HCl in catalyst regenerator exhaust gas) = a numerical limit TBD as established during initial source test Note: The initial source test at the CRUs established a site specific HCl daily average operating limit of 27 ppmv as measured by colormetric tube sampling system per Equation 4 in §63.1567 in the catalyst regenerator exhaust gas.	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(c)(1)	P (during coke burn off & catalyst rejuvenation)	Method in Table 27/28 of subpart

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Fugitives – knockout drum (V-705A) downstream of S-4252/S-4346 and S-4253</u>	<u>Condition #26714 Part 1</u>	N		None	None – it is implied that all components at V-705A will be monitored as required by Reg. 8-18 and 8-28 at all times of operation	N	N

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

~~S-4155 F-135 Hot Oil Furnace~~, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, ~~S-4250 Hydrogen Manufacturing~~, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, ~~S-4348 H2 Recovery Plant RLOP~~, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4400 Wax Melt Vessel, S-6050 MTBE Plant, ~~S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #26714 Parts 2-7	N		Number of fugitive components permitted; requirements to offset emissions if “installed” fugitive components > “permitted” fugitive components; requirement for BACT compliant valves, flanges to comply with 100 ppm leak standard; requirements for BACT compliant pump seals to comply with 500 ppm leak standard; BACT requirements for PRVs; Full permit conditions available in Section VI.	Condition #26714 Part 8	P/Q	LDAR Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.2.1 Process Units (FCC)

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-1-501, 6-1-502 and 1-522	C	Opacity monitor and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-501, 6-502 and 1-522	C	Opacity monitor and Records
Opacity	SIP 6-302 and BAAQMD 6-1-302	Y		Opacity shall not exceed 20% for more than 3 minutes in any hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-502 and BAAQMD 6-1-501, 502, and 1-522	C	Opacity monitor
Opacity	SIP 6-302	Y		Opacity shall not exceed 20% for more than 3 minutes in any hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-501, 502 and 1-522	C	Opacity monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-304 and BAAQMD 6-1-304	Y		During tube cleaning, and except for three minutes in any one hour, a person shall not emit from any heat transfer operation using fuel at a rate of not less than 140 million Btu per hour, a visible emission as dark or darker than No. 2 on the Ringelmann chart, or of such opacity as to obscure an observers view to an equivalent degree, or equal to or greater than 40% opacity as perceived by an opacity sensing device in good working order. The aggregate duration of such emissions in any 24-hour period shall not exceed 6.0 minutes per one billion Btu gross heating value of fuel burned during such 24 hour period.	SIP 1-520.5 and BAAQMD 1-520.5	C	Opacity monitor
Opacity	40 CFR 60 Subpart J 60.102(a)(2)	Y		30 % opacity, except for one 6 minute average opacity reading in 1 hour	40 CFR 60 Subpart J 60.105(a)(1) 60.105(e)(1)	C	Opacity monitor and records
Opacity	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1564(a)(1)	Y		30% opacity, except for one 6 minute average opacity reading in 1 hour	63.1564(b)(1) & 63.1564(c)(1) 63.1570(c) 63.1572(b) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(d) 63.1576(a) 63.1576(b) 63.1576(c) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i)	P/D (operational records) , P/Semi-Annual (compliance report) , and C (opacity monitoring, maintain records) C	Records, calculations, Performance Tests, and Reports Opacity monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310 BAAQMD 6-1-310	Y		0.15 grain/dscf	#11066 Part 7a	P/Q,P/D,C	Source test,TR set secondary current, Temperature monitor and recorder
FP	SIP 6-311 and BAAQMD 6-1-311	Y		<u>TSP weight limits</u> 40 lb/hr particulate hr	#11066 Part 7a	P/Q,P/D,C	Source test,TR set secondary current, Temperature monitor and recorder
PM	40 CFR 60 Subpart J 60.102(a) (1)	Y		1.0 kg of PM per 1000 kg of coke burn off in catalyst regenerator	<u>60.105(c)</u> #11066 Part 7a	<u>P/D</u> P/Q	<u>Recordkeeping</u> Source test
PM	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1564(a) (1)	Y		1.0 kg of PM per 1000 kg of coke burn off in catalyst regenerator	<u>63.1564(c)(1)</u> <u>63.1570(c)</u> <u>63.1575(a)</u> <u>63.1575(b)</u> <u>63.1575(c)</u> <u>63.1575(d)</u> <u>63.1575(f)</u> <u>63.1576(a)</u> <u>63.1576(d)</u> <u>63.1576(f)</u> <u>63.1576(g)</u> <u>63.1576(h)</u> <u>63.1576(i)</u> PM: #11066 part 7a	<u>P/D (operational records),</u> <u>P/Semi-Annual (compliance report), and</u> <u>C (opacity monitoring, maintain records)</u> P/Q	<u>Records, calculations, Performance Tests, and Reports</u> Source test
TSP	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		92 TPY TSP [applicable to S-4285]	#11066 Part 7a	P/Q	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	Cleaner Fuels Project FCC Mod. Condition #11066 Part #7	Y		21 lb TSP/hr, average of four source tests per calendar year [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part #7	P/Q	Quarterly performance test
SO2	9-1-310.1	Y		1000 ppmv	9-1-502 1-520.5	C	SO2 CEM
SO2	9-1-313.1	Y		Sulfur content of crude oil shall not exceed 0.10% by wt, or	None	P/D	Crude Sampling when sulfur plants are down
SO2	9-1-313.2	Y		Removal and recovery of 95% of H2S in refinery fuel gas and 95% of H2S in process water streams on a refinery wide basis		N/A	9
SO2	SIP 9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery wide basis and 95% of H2S in process water streams is removed and recovered on a refinery wide basis		N/A	
SO2	40 CFR 60 Subpart J 60.104(b) (2)	Y		Without add-on control device, maintain SO2 emissions to atmosphere at less than or equal to 9.8 kg of SO2 per 1000 kg of coke burn-off	40 CFR 60 Subpart J 60.104(c), 60.105(c), 60.106(H)(12) 60.108(e)	C	Calculated stoichiometrically from SO2 CEM, & process monitoring for air inlet rate to regenerator; Records
SOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3			2199.4 TPY [applicable to S-4285]	#11066 Part 10a	C	CEMs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	Cleaner Fuels Project FCC Mod. Condition #11066 Part 4a			Shall not exceed 330 ppmv averaged over any 24-hour operating period, corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9c	C	CEMs
SO2	Cleaner Fuels Project FCC Mod. Condition #11066 Part 4b			Shall not exceed 25 ppmv @ 0% O2 on a 365 day rolling average and 50 ppmv @ 0% O2 on a 7 day rolling average	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
SO2	Cleaner Fuels Project FCC Mod. Condition #11066 Part 10a or Part 10b	Y		9.8 lbs SO2/1000 lbs coke burn off (7-day rolling average) [applicable to S-4285] or 0.3 wt.% S in fresh feed [applicable to S-4285]	40 CFR 60.106(I)(12) or 60.106(j)	C Or P/8 hours	Calculated stoichiometrically from SO2 CEM, & process monitoring for air inlet rate to regenerator Or feed sample
NH3	BAAQMD 6-5-403	N		Ammonia limit established based on Optimization Plan 3/1/16	BAAQMD 6-5-501	C	APCO approved NH3 Monitoring System
NH3	Cleaner Fuels Project FCC Mod. Condition #11066 Part 15	Y		Ammonia (NH3) injection rate shall not exceed 500 lbs/hr [applicable to S-4285 and A-0014]	regulation 2-6-409.2.2	P/D	record keeping
CO	40 CFR 60 Subpart J 60.103(a) And condition 11066 part 6	Y		500 ppmv and 500 ppmv 1 hour average	40 CFR 60 Subpart J 60.105(a)(2), 60.105(c) And condition 11066 part 6	C	CO monitor CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		258.4 TPY [applicable to S-4285]	#11066 Part 9	C	CEMs
CO	Cleaner Fuels Project FCC Mod. Condition #11066 Part 6	Y		Shall not exceed 67 ppmv averaged over any rolling 30 day period, or 50 ppmv averaged over any calendar year corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
CO	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1565(a)(1)	Y		500 ppmv	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1565(b)(1) & 63.1565(c)(1) 63.1565(c) 63.1570(c) 63.1572(a) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h)	P/Semi-Annual (compliance report), and C (emissions monitoring, maintain records e	Records, Performance Test, CO CEMs
Process Unit Throughput	Cleaner Fuels Project FCC Mod. Condition #11066 Part 1	Y		FCC Reactor Feed rate shall not exceed 80 MBPD average over any calendar year, nor 90 MPBD average over any calendar day [applicable to S-4285]	#11066 Part 11	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		1504.7 TPY [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
NOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 5a	Y		Shall not exceed 220 ppmv averaged over any 24-hour operating day period, or 180 ppmv averaged over any 30 day period, or 150 ppmv averaged over any calendar year period, corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
NOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 5b	Y		Shall not exceed 20 ppmv @ 0% O2 on a 365 day rolling average basis and 40 ppmv @ 0% O2 on a 7 day rolling average basis	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
POC	BAAQMD 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD & SIP 8-10-401.2 and 8-10-501, 502.1 through 502.3 & 502 BAAQMD 8-18-502.4	P/E	Records
POC	BAAQMD & SIP 8-18-301	Y		Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-302	Y		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-18-302	N		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-303	Y		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-502.4, 8-18-401, 8-18-402, 8-18-403, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/D – visual inspection and Q - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD 8-18-303	N		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-404 (pumps only), 8-18-501, 8-18-502, and 8-18-602	P/D – visual inspection and Q or A (pumps only) - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-304	Y		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD 8-18-304	N		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	BAAQMD, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and 8-18-602	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD & SIP 8-18-305	N/Y		Pressure release devices that leak > 500 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 15 days or if the leak is discovered by an APCO and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	SIP 8-18-306	Y		Limitations on non-repairable equipment	SIP 8-18-501, 8-18-502, and BAAQMD 8-18-602, SIP 8-18-604	P/5 years or next turnaround	Records And Sampling
POC	BAAQMD 8-18-306	N		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502, 8-18-503, 8-18-602, and SIP 8-18-604 BAAQMD 8-18-502.4 8-18-503	P/5 years or next turnaround	Records And Sampling
POC	BAAQMD & SIP 8-18-307 and 8-18-211	Y		Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
POC	BAAQMD 8-18-309.3	N		<= 100 ppm at open end of second valve when double block and bleed system is not in use	BAAQMD 8-18-401.2	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspection and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-18-310	N		Valve, pump, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead	BAAQMD 8-18-407	P/M	Visual inspections, portable HC detector (EPA Method 21) and records of inspection and repairs
POC	BAAQMD 8-18-311	N		Mass emission rate <= 5 lbs/day for any equipment except during repair periods	BAAQMD 8-18-604	P/E	Mass Emission Sampling
POC	SIP 8-28-303.1	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
POC	BAAQMD 8-28-303.1	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
POC	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	P/E	Records
POC	BAAQMD & SIP 8-28-304	Y		If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, 8-28-404, 8-28-405, and 8-28-502	P/E	Reporting and prescribed measures.
POC	BAAQMD 8-53-301	N		When loading regulated material, using vacuum truck; 500 ppmv. as methane or 95% abatement efficiency	BAAQMD 8-53-501	P/E during loading	Method 21, 25A, of ST-7
POC	Cleaner Fuels Project FCC Mod. Condition #11066 Part #3	Y		6.1 TPY [applicable to S-4285]	condition #11066 Part 2	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

FCC

S-4285 Fluid Catalytic Cracking Unit , Catalyst Regenerator abated by A-0014 Electro-Static Precipitator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
ESP Inlet Temperature		Y		Minimum of 550 F averaged over any one-hour period [applicable to S-4285 and A-0014]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a4	C	Inlet temperature monitor and recorder
Secondary current of TR	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a5	Y		Average shall not be less than 200 milliamps averaged over any three hour period, [applicable to S-4285 and A-0014] or	Cleaner Fuels Project FCC Mod. Condition #11066 Part #7a3	P, daily basis	Monitor
Inlet velocity to the primary internal cyclones (option during startup, shutdown and hot standby)	MACT 2 63.1564(a)(5)(ii)	<u>Y</u>		Maintain inlet velocity to the primary internal cyclones of the catalytic cracking unit catalyst regenerator at or above 20 feet per second	MACT 2 63.1564(c)(5) 63.1572, 63.1573.	<u>C</u>	Flow meter
O2 concentration from catalyst regenerator (option during startup, shutdown and hot standby)	MACT 2 63.1565(a)(5)(ii)			Maintain oxygen concentration in the exhaust gas from catalyst regenerator at or above 1 volume percent (dry)	MACT 2 63.1572, 63.1573	<u>C</u>	Monitor
Secondary current of TR	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a5	Y		No more than 2 TR sets may be less than 200 milliamps averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period [applicable to S-4285 and A-0014]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a3	C	Monitor/alarm set at 200 milliamps

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.D.1.1 Refinery (Refinery)

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-5-117 & condition #20764 part 1	Y		Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia).	2-6-409.2 & condition # 20764 part 1	P/E	Fuel sampling upon storage material change. Recordkeeping
	8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401(SIP) and 8-10-501/502 (non SIP)	P/E	Recordkeeping
HAP (Benzene)	61.343 (a)(1)(i)(A) tanks	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.343 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.343 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.344 (a)(1)(i)(A) surface impoundments	Y		Cover leak tightness standards (< 500 ppmw)	61.344 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.344 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.344 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.344 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.344 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.345 (a)(1)(i)(A) containers	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.346 (a)(1)(i)(A) individual drain systems	Y		Cover leak tightness standards (< 500 ppmw)	61.346 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.346 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.346 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.346 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.346 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.349 (a)(1)(i) closed-vent systems and control devices	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3192. Reduce organics by 95 weight % or < 20 ppmv organics dry basis, 3% O2 or > 0.5 seconds residence time @ greater than 1400F.			
HAP (Benzene)	61.349(h)	Y		Control device standards {NOTE TO USER Delete this row for units that meet the conditions of 61.343(b)(1)}	61.354 (c) and (d)	Inspect cContinuous monitors check daily for part c and P/D or 20% of design carbon replacement interval whichever is greater for part d	Specified parameter
<u>HAP</u>	<u>63.643</u>	<u>Y</u>		<u>Miscellaneous process vent provisions</u>	<u>63.644, 63.645</u>	<u>Periodic or continuous as applicable</u>	<u>Specified parameter</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	63.658(f)(3)	Y		Action level of 9 µg/m³ benzene on an annual average basis (note that this is not a limit for an individual monitor)	63.658	Continuous 14-day sampling periods to start; sampling frequency may be reduced over time depending on results	Passive monitors
Ambient SO ₂	9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hrs	9-1-501	C	Area monitoring
Ambient H ₂ S	9-2-301	N		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	9-2-501	C	Area monitoring
		Y		Benzene Waste NESHAP Annual Report	40 CFR 61 Subpart FF 61.357(d)	P/A	Reporting
		Y		Refinery MACT Startup, Shutdown, Malfunction Report	40 CFR 63 63.654(h)(1)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR 63 63. 654 655(g)	P/SA	Report

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Particulate emissions cap (refinery)	Condition #469	Y		Particulate 281.1 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records
Non-methane hydrocarbon (refinery) emissions cap	Condition #469	Y		Non-methane hydrocarbons 326.3 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx (refinery) emissions cap	Condition #469	Y		NOx 5,772.0 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records
SO2 (refinery) emissions cap	Condition #469	Y		SO2 392.0 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO (refinery) emissions cap	Condition #469	Y		CO 723.5 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records
Particulate emissions cap (refinery + wharf)	Condition #469	Y		Particulate 326.0 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-methane hydrocarbon (refinery + wharf) emissions cap	Condition #469	Y		Non-methane hydrocarbons 391.1 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records
NOx (refinery + wharf) emissions cap	Condition #469	Y		NOx 6,141.0 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2 (refinery _ wharf) emissions cap	Condition #469	Y		SO2 918.0 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records
CO (refinery + wharf) emissions cap	Condition #469	Y		CO 773.5 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	40 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
CO (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	100 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
SOx (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	40 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
PM10 (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	15 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
Hydrogen Sulfide (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	10 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
Total Reduced Sulfur (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	10 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records
Reduced Sulfur Compounds (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	10 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery
Facility #A0010

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Sulfuric Acid Mist (Modernization Project PSD thresholds)	Condition #24136 Part 106	Y	Post Modernization	7 tons/year Modernization Project PSD net emissions increase thresholds apply to all sources covered by permit application (A/N 12842)	Condition #24136 Part 108	P/M	Monthly records

Table VII.E.1.1 Sulfur Recovery (H2S Plants)

**Table VII.E.1.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

H2S Plants

S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S), [S-4454 #6 H2S Plant Recycle Amine](#)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries that remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant		N/A	
SO2	SIP 9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed;		N/A	

VII. Applicable Limits and Compliance Monitoring Requirements

<p align="center">Table VII.E.1.1 Sulfur Recovery Applicable Limits and Compliance Monitoring Requirements</p> <p align="center"><u>H2S Plants</u></p> <p align="center">S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S), <u>S-4454 #6 H2S Plant Recycle Amine</u></p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	Condition #18945 Part 1	N		Throughput limits for S-4433	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 2	N		Throughput limits for S-4434	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 3	N		Throughput limits for S-4435	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 4	N		Throughput limits for S-4429	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 5	N		Throughput limits for S-4345	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 6	N		Throughput limits for S-4345	Condition #18945 Part 7	P/D	Recordkeeping
	Condition 24136, Part 77	<u>Y</u>	Post Modernization	Throughput limits for S-4454	Condition 24136, Part 110	<u>P/D</u>	Recordkeeping
Fugitives – pumps serving S-4429	Condition #26681 Part 1	<u>N</u>		The owner/operator of S-4429 (#8 NH₃/ H₂S Plant) shall ensure shaft seal emissions from pumps (P-853, P-853A, P-851, P-851A, P-852, P-890, P-890A, and P-894) are captured and vented to furnaces S-4152, S-4155, S-4161, S-4168, and S-4169) at all times of operation.	<u>None – it is implied that all pump shaft seal emissions will be monitored as required by Reg. 8-18 at all times of operation</u>	<u>N</u>	<u>N</u>
Fugitives – pumps serving S-4429	Condition #26681 Parts 2-5	<u>N</u>		Number of fugitive components permitted; requirements to offset emissions if “installed” fugitive components > “permitted” fugitive components; requirement for BACT compliant valves, flanges to comply with 100 ppm leak standard. Full permit conditions available in Section VI.	Condition #26681 Part 6	<u>P/Q</u>	LDAR Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.E.2.1 Sulfur Recovery (Claus Units)

Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	9-1-307	Y		SO2 emission limits for sulfur recovery plants that emit 100 lb/day SO2 or more (250 ppmv, dry, at 0% oxygen)	1-520.4 (9-1-502 requires compliance with 1-520 and 1-522)	C	SO2 CEM
	9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of H2S in process water streams is removed and recovered on a refinery-wide basis and 95% of ammonia in process water streams is removed; refineries that remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	\	N/A	
	SIP 9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of H2S in process water streams is removed and recovered on a refinery-wide basis and 95% of ammonia in process water streams is removed		N/A	

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(a)(1)	Y		250 ppm by volume, dry basis, of SO2 at 0% excess air	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(b)(1) & 63.1568(c)(1) 63.1570(c) 63.1572(a) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i)	C	SO2 CEM
SO2	60.104(a)(2)(i)	Y		250 ppmv SO2 @0% O2 (12 hrs avg. basis)	60.105(a)(5) 60.106(f)(3)	C	SO2 Analyzer
SO2	40 CFR 60 Subpart Ja, 60.102a(f)(1)	Y	Post Modernization	250 ppm by volume, dry basis, of SO2 at 0% excess air, or limit calculated according to Equation 1	40 CFR 60 Subpart Ja, 60.106a(a)	C	CEM
SO2	Condition #24136 Part 84b	Y	Post Modernization	50.0 ppm, dry, corrected to 0% oxygen, averaged over any calendar day [applies to emission points for A-20, A-21, A-22]	Condition #24136 Part 90	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	Condition #24136 Part 90 and Part 92	Y	Post Modernization	<p>86.70 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</p> <p>21.39 tons/yr in any consecutive 12-month period [applies to S-4227, S-4436]</p> <p>21.39 tons/yr in any consecutive 12-month period [applies to S-4228, S-4437]</p> <p>Post-Modernization Modification 43.92 tons/yr in any consecutive 12-month period [applies to S-4229, S-4438]</p>	Condition #24136 Part 90	C	CEM
	Condition 469	Y		Emission limits	Condition 469	P/M	Recordkeeping
HAP (Option during startup and shutdown)	MACT 2.40 CFR 63 Subpart UUU 63.1568 (a)(4)	Y		Minimum thermal oxidizer firebox temperature of 1,200 degrees Fahrenheit or send purge gases to flare	Refinery MACT2.40 CFR 63 subpart UUU, 63.1568(b)(1) & 63.1568(c)(1)	C	Thermal oxidizer temperature indicator or flare monitor
Opacity	SIP 6-301 and BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-601 and BAAQMD 6-1-601 condition 22262 part 2	P/M	Visible emissions monitoring
FP	SIP 6-305 BAAQMD 6-1-305	Y		Visible Particles	SIP 6-601 BAAQMD 6-1-601	P/E	Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310 and BAAQMD 6-1-310	Y		0.15 grain/dscf	none	N/A	none
<u>FP</u>	<u>SIP 6-310.3 BAAQMD 6-1-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>None</u>
FP	SIP 6-311 and BAAQMD 6-1-311	Y		<u>TSP weight limits 4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	None	P/E	Visible inspection
NH3	9-1-313.2	Y		Removal of 95% of ammonia in process water streams		N/A	
NH3	SIP 9-1-313.2	Y		Removal of 95% of ammonia in process water streams		NA	
SO3, H2SO4	SIP 6-330 and BAAQMD 6-1-330	Y		0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	#18655 Part 2	P/A	District-approved source test method
H2S	Condition #19063 part 4 <u>(will be superseded by Condition 24136, Part 85 upon modification)</u>	N		10 ppmv H2S	9-1-313.2	N/A	
<u>NOx</u>	<u>Condition #24136 Part 84</u>	<u>Y</u>	<u>Post Modernization</u>	<u>50.0 ppm, dry, corrected to 0% O2, 3-hour average [applies to emission points for A-20, A-21, A-22]</u>	<u>Condition #24136 Part 90</u>	<u>C</u>	<u>CEM</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>NOx</u>	<u>Condition #24136 Part 90 and Part 92</u>	<u>Y</u>	<u>Post Modernization</u>	<u>62.33 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</u> <u>15.38 tons/yr in any consecutive 12-month period [applies to S-4227, S-4436]</u> <u>15.38 tons/yr in any consecutive 12-month period [applies to S-4228, S-4437]</u> <u>Post-Modernization Modification</u> <u>31.57 tons/yr in any consecutive 12-month period [applies to S-4229, S-4438]</u>	<u>Condition #24136 Part 90</u>	<u>C</u>	<u>CEM</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	<u>Condition #24136 Parts 90 and 92</u>	<u>Y</u>	<u>Post Modernization</u>	<u>86.70 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</u> <u>21.39 tons/yr in any consecutive 12-month period [applies to S-4227, S-4436]</u> <u>21.39 tons/yr in any consecutive 12-month period [applies to S-4228, S-4437]</u> <u>Post-Modernization Modification</u> <u>43.92 tons/yr in any consecutive 12-month period [applies to S-4229, S-4438]</u>	<u>Condition #24136 Part 91</u>	<u>C</u>	<u>CEM</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	<u>Condition #24136 Part 90 and Part 92</u>	Y	<u>Post Modernization</u>	<u>113.80 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</u> <u>28.08 tons/yr in any consecutive 12-month period and 222.72 lb/day on any calendar day [applies to S-4227, S-4436]</u> <u>28.08 tons/yr in any consecutive 12-month period and 173.52 lb/day on any calendar day [applies to S-4228, S-4437]</u> <u>Post-Modernization Modification</u> <u>57.64 tons/yr in any consecutive 12-month period and 325.44 lb/day on any calendar day [applies to S-4229, S-4438]</u>	<u>Condition #24136 Part 90</u>	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	<u>Condition #24136 Part 90 and Part 92</u>	Y	<u>Post Modernization</u>	<p>2.84 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</p> <p>0.76 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4227, S-4436]</p> <p>0.76 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4228, S-4437]</p> <p>Post-Modernization Modification 1.32 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4229, S-4438]</p>	<u>Condition #24136 Part 90 and 94</u>	<p>P/Q for two years</p> <p>May apply to change frequency to P/SA after two years</p>	<u>Source Test</u>
H2S	<u>Condition #24136 Part 84, Part 90, and Part 92</u>	Y	<u>Post Modernization</u>	4.0 ppm, dry, corrected to 0% O ₂ , averaging time based on district approved source test method [applies to S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]	<u>Condition #24136 Part 91a and 94</u>	P	<u>Source Test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>H2S</u>	<u>Condition #24136 Part 95</u>	<u>N</u>	<u>Post Modernization</u>	<u>Stack emission limit:</u> <u>0.323 lb/hr [applies to S-4227, 4228 separately]</u> <u>Post-Modernization Modification</u> <u>0.646 lb/hr [applies to S-4229]</u> <u>Fugitive emission limit:</u> <u>0.0994 lb/hr [applies to Modernization Project components at S-4227, S-4228, and S-4229]</u>	<u>Condition #24136 Part 91a, 94, 110, 116</u>	<u>P/O(Stack)</u>	<u>Source Test</u>
<u>Gas Flow</u>	<u>Condition #24136 Part 84 and Part 92</u>	<u>Y</u>	<u>Post Modernization</u>	<u>15,000 dscfm, corrected to 0% O2, exhaust flow rate averaged over any 1 hour period [applies to S-4227 and S-4228]</u> <u>Post-Modernization Modification</u> <u>30,000 dscfm, corrected to 0% O2, exhaust flow rate averaged over any 1 hour period [applies to S-4229]</u>	<u>Condition #24136 Part 91</u>	<u>C</u>	<u>Flow meter</u>
<u>Fuel Flow</u>	<u>Condition #24136 Part 86d</u>	<u>N</u>	<u>Post Modernization</u>	<u>739.0 MMBTU/day HHV each [S-4227/A-20 and S-4228/A-21]</u> <u>Post-Modernization Modification</u> <u>1,080.0 MMBTU/day HHV [applies to S-4229/A-22]</u>	<u>Condition #24136 Part 110</u>	<u>P/D</u>	<u>Recordkeeping</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Throughput</u>	<u>Condition #24136 Part 82</u>	<u>Y</u>	<u>Post Modernization</u>	<u>Combined acid gas feed rate limit of 24.5 MMscf/day averaged over any consecutive 3-hour period plus an additional 3 MMscf/day from sour water sources [applies to S-4227, S-4228, and S-4229]</u>	<u>Condition #24136 Part 89</u>	<u>P/D</u>	<u>Recordkeeping</u>
<u>PM10</u>	<u>Condition #24136 Part 88</u>	<u>N</u>	<u>Post Modernization</u>	<u>Minimum abatement efficiency of 90 %wt</u> <u>0.504 lb averaged over one hour [applies to A-120]</u> <u>0.450 lb averaged over one hour [applies to A-121]</u> <u>Post-Modernization Modification</u> <u>0.884 lb averaged over one hour [applies to A-122]</u>	<u>Condition #24136 Part 88</u>	<u>P/Q for two years</u> <u>May apply to change frequency to P/SA after two years</u>	<u>Source Test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM10	<u>Condition #24136 Part 90 and Part 92</u>	Y	<u>Post Modernization</u>	<p><u>5.34 tons/yr in any consecutive 12-month period [annual combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438]</u></p> <p><u>1.44 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4227, S-4436]</u></p> <p><u>1.30 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4228, S-4437]</u></p> <p><u>Post-Modernization Modification</u> <u>2.60 tons/yr in any consecutive 12-month period and 9.8 lb/day on any calendar day [applies to S-4229, S-4438]</u></p>	<u>Condition #24136 Part 90 and 94</u>	<p><u>P/Q for two years</u></p> <p><u>May apply to change frequency to P/SA after two years</u></p>	<u>Source Test</u>
<u>Sulfuric Acid Mist</u>	<u>Condition #24136 Part 88</u>	N	<u>Post Modernization</u>	<u>Minimum abatement efficiency of 90 % wt</u>	<u>Condition #24136 Part 88</u>	<u>P/Q</u>	<u>Source Test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Sulfuric Acid Mist	Condition #24136 Part 90 and Part 92	Y	Post Modernization	1.856 lb/hour [combined emissions limit for S-4227, S-4228, S-4229, A-120, A-121, A-122, A-20, A-21, A-22, S-4436, S-4437 and S-4438] 0.673 lb/hour [applies to S-4227, S-4436] 0.425 lb/hour [applies to S-4228, S-4437] Post-Modernization Modification 0.758 lb/hour [applies to S-4229, S-4438]	Condition #24136 Part 90 and 94	P/Q for two years May apply to change frequency to P/SA after two years	Source Test
Sulfuric Acid Mist	Condition #24136 Part 95	N	Post Modernization	Stack emission limits: 0.673 lb/hr [S-4227] 0.425 lb/hr [S-4228] Post-Modernization Modification 0.758 lb/hr [S-4229]	Condition #24136 Part 90 and 94	P	Source Test
Inlet water flow	Condition #24136 Part 88	N	Post Modernization	[TBD after startup] gal/min minimum inlet water flow to each scrubber	Condition #24136 Part 88	C	Flowmeter
Temperature	Condition #24136 Part 88	N	Post Modernization	Maximum of [TBD after startup] degrees F [applies to Wet ESP A-120, A-121, and A-122]	Condition #24136 Part 88	C	Temperature monitor and recorder

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Secondary current TR	Condition #24136 Part 88	N	Post Modernization	Secondary current of any TR set shall not be less than [TBD after startup] milliamps averaged over any three hour period, or the secondary current of up to two TR sets may be less than [TBD after startup] milliamps, averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above [TBD after startup] milliamps, averaged over any three hour period [applies to Wet ESP A-120, A-121, and A-122]	Condition #24136 Part 88	C	Monitor
O2		Y		No limit	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(b)(1) & 63.1568(c)(1)	C	O2 monitor
Refinery Cap	Condition #469	Y		Emission limits	Condition #469	P/M	Record keeping
Temperature	Condition #24136 Part 81	Y	Post Modernization	For A-20, A-21, and A-22, maintain minimum oxidization temperature of 1400 degrees Fahrenheit	Condition #24136 Part 81	C	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #19063 part 1 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/D	Recordkeeping
Throughput	Condition #19063 part 1 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/A	Recordkeeping
Throughput	Condition #19063 part 2 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/D	Recordkeeping
Throughput	Condition #19063 part 2 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/A	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply

S-4436 Stack Gas Heater #1 SRU (replaced S-4192),

S-4437 Stack Gas Heater #2 SRU (replaced S-4193),

S-4194 F-2370 Tail Gas Heater #3 SRU

(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #19063 part 3 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/D	Recordkeeping
Throughput	Condition #19063 part 3 (will be superseded by Condition 24136, Part 85 upon modification)	N		Long tons of Sulfur	Condition #19063 part 5 (will be superseded by Condition 24136, Part 85 upon modification)	P/A	Recordkeeping
Throughput	Condition #24136 Part 87a and 87b	N	Post Modernization	The lesser of either: 345 Long Tons of total sulfur production in any calendar day or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations [applies separately to S-4227 abated by A-20 and A-120; and S-4228, abated by A-21 and A-121]	Condition #24136 Part 89	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration and A-120 Wet Electrostatic Precipitator (ESP), S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration and A-121 Wet Electrostatic Precipitator (ESP), S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration and A-122 Wet Electrostatic Precipitator (ESP)

Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply
S-4436 Stack Gas Heater #1 SRU (replaced S-4192),
S-4437 Stack Gas Heater #2 SRU (replaced S-4193),
S-4194 F-2370 Tail Gas Heater #3 SRU
(S-4194 will be replaced by S-4438 Stack Gas Heater #3 SRU Post Modernization)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #24136 Part 87c	N	Post Modernization	Post-Modernization Modification The lesser of either: 570 Long Tons of total sulfur production in any calendar day or the throughput level determined through District-approved source testing to be maximum calendar day throughput achievable while complying with all emissions limitations [applies to S-4229, abated by A-22 and A-122]	Condition #24136 Part 89	P/D	Recordkeeping
Throughput	Condition #24136 Part 87d	N	Post Modernization	Limit combined calendar day throughput to 900 Long Tons in any calendar day or 750 Long Tons per day on an annual average basis [applies to S-4227, S-4228, and S-4229]	Condition #24136 Part 89	P/D	Recordkeeping
Firing Rate	Condition #24136 Part 86d	N	Post Modernization	765.60 MMBTU/day HHV each [applies to S-4436 and S-4437] 1,346.0 MMBTU/day HHV [applies to S-4438]	Condition #24136 Part 86	C	Fuel flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.E.3.1 Sulfur Recovery

**Table VII.E.3.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Sulfur Racks

~~S-4396 Sulfur Loading Racks and S-3226 and S-3234 Sulfur Storage Tanks abated by A-0043 Venturi Water Scrubber in series with A-0044 Venturi Caustic Scrubber, S-4490 Sulfur Loading Truck Rack abated by A-310 Water Scrubber in series with Caustic Scrubber of Packed Bed Design*~~

~~*When S-4490 replaces S-4396, A-0043 and A-0044 will abate S-3226 and S-3234~~

~~S-3226 Sulfur Storage Tank, S-3141 Sulfur Storage Tank, S-4396 Sulfur Loading Racks all abated by A-0043 Vent Water Scrubber, S-4490 Sulfur Loading Truck Rack abated by A-310 Water Scrubber in series with Caustic Scrubber of Packed Bed Design~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
Throughput	Condition #25814 Part 2	N		216,330 long tons (LT) during any consecutive 12-month period 592.7 LT per day on an annual average basis 1,387 LT per calendar day [applies to S-4490]	Condition #25814 Part 3	P/D/M/A	Recordkeeping (requirements to maintain and retain records)
Throughput	Condition #25814 Part 2	N		216,330 long tons molten sulfur during any consecutive 12-month period; and 593 long tons molten sulfur per calendar day	Condition #25814 part 3	P/D/M/A	Recordkeeping (requirements to maintain and retain records)
H2S limit for A-310	Condition #25814 Part 5	N		Abated H2S from A-310 < 12 ppm	Condition #25814 Parts 5-7	P/A	Initial and subsequent source tests Submission, Notification Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII F.1.0 tanks

Table VII.F.1.0 Storage Tanks
 Applicable Limits and Compliance Monitoring Requirements

Tanks with permit conditions only

~~S-252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Condition #4233	N		Throughput limits for S-1911 , S-1913, S-1914, S-1915, S-1919, S-2920, S-2921	N	N	N
Throughput	Condition #11208	N		Throughput and vapor pressure limits for S-1911 , S-6125, S-1909	Condition #11208	P/M	recordkeeping
Throughput	Condition #12580	N		Throughput for S-1894	N	N	N
Throughput	Condition #15107 Part 1	N		Throughput limit of 60 barrels in any 12 consecutive months for S- 252801	Condition #15107 Part 3	P/M	Recordkeeping
Vapor Pressure	Condition #15107	N		True vapor pressure of stored materials not to exceed 0.5 psia for S- 252801	Condition #15107 Part 3	P/M	Recordkeeping
Throughput	Condition 23765	N		Throughput limit for S-4360	Condition 23765	P/D	Recordkeeping
Throughput	Condition 23773	N		Throughput limit for S-4363	Condition 23773	P/D	Recordkeeping
Throughput	Condition 23774	N		Throughput limit for S-4364	Condition 23774	P/D	Recordkeeping
Throughput	Condition #24452 Part 1	N		Throughput limit of 15,000 gallons of Tri-Act 1825 in any 12 consecutive months for S-4365	Condition #24452 Part 4	P/M	Recordkeeping
Vapor Pressure	Condition #24452 Part 2	N		True vapor pressure of stored materials not to exceed 0.5 psia for S-4365	Condition #24452 Part 4	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.0 Storage Tanks
Applicable Limits and Compliance Monitoring Requirements

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Composition	Condition #24452 Part 7	N		<u>Formulation of materials stored in S-4365 may be changed, subject to District conditions and approval.</u>	Condition #24452 Part 4	P/M	Recordkeeping
Throughput	Condition #24604 Part 1	N		Throughput limit of 10,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 months for S-4366	Condition #24604 Part 8	P/M	Recordkeeping
Throughput	Condition #24604 Part 2	N		Throughput limit of 5,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 months for S-4367	Condition #24604 Part 8	P/M	Recordkeeping
Throughput	Condition #24604 Part 3	N		Throughput limit of 5,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 months for S-4368	Condition #24604 Part 8	P/M	Recordkeeping
Throughput	Condition #24604 Part 4	N		Throughput limit of 15,000 gallons of Tri-Act 1803 and 1825 combined in any consecutive 12 months for S-4369	Condition #24604 Part 8	P/M	Recordkeeping
Composition	<u>Condition #24604 Part 7</u>	N		<u>Formulation of materials stored in S-4366 through S-4370 may be changed, subject to District conditions and approval.</u>	<u>Condition #24452 Part 8</u>	P/M	Recordkeeping
Throughput	Condition #24604 Part 5	N		Throughput limit of 4,000 gallons of Custamine in any consecutive 12 months for S-4370	Condition #24604 Part 8	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.0 Storage Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	Condition #24604 Part 6	N		True vapor pressure of stored materials not to exceed 0.5 psia for S-4366, S-4367, S-4368, S-4369, and S-4370	Condition #24604 Part 8	P/M	Recordkeeping
Throughput	Condition #24606 Part 1	N		Throughput limit of 5,000 gallons of NALCO EC9085A in any 12 consecutive months for S-4372	Condition #24606 Part 3	P/M	Recordkeeping
Vapor Pressure	Condition #24606 Part 2	N		True vapor pressure of stored materials not to exceed 0.5 psia for S-4372	Condition #24606 Part 3	P/M	Recordkeeping
Throughput	Condition #25001 Part 1	N		Throughput limit of 28,000 gallons of Corrosion inhibitor in any 12 consecutive months for S-4373	Condition #25001 Part 4	P/M	Recordkeeping
Vapor Pressure	Condition #25001 Part 2	N		True vapor pressure of stored materials not to exceed 0.5 psia for S-4373	Condition #25001 Part 4	P/M	Recordkeeping
Composition	Condition #25001 Part 3	N		<u>Formulation of materials stored in S-4373 may be changed, subject to District conditions and approval.</u>	Condition #25001 Part 4	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.0 Storage Tanks
Applicable Limits and Compliance Monitoring Requirements

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Customine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrosion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #25001 Parts 5-12	N		Fugitive emissions from S-4373 are to comply with a leak standard of 100 ppm TOC for at any valves, flanges, connectors, and/or PSVs, a maximum of 500.0 ppm fugitive TOC at any pumps, and are not to exceed 0.589 tons of POC in any 365 consecutive days. Full permit conditions available in Section VI	Condition #25001 Part 13	P/M	Recordkeeping
Throughput	Condition #25479 Part 1	N		Throughput limit of 10,000 gallons of Flocculent in any consecutive 12 months for S-4374	Condition #25479 Part 4	P/M	Recordkeeping
Vapor Pressure	Condition #25479 Part 2	N		True vapor pressure of stored materials not to exceed 0.5 psia for S-4374	Condition #25479 Part 4	P/M	Recordkeeping
Composition	Condition #25479 Part 3	N		The formulation of materials stored in S-4374 may be changed if there is no net increase in emissions (32 #/y) and no toxic trigger levels are met or exceeded,	Condition #25479 Part 4	P/M	Recordkeeping
Fugitives	Condition #25479 Parts 5-12	N		Fugitive emissions from S-4374 are to comply with a leak standard of 100 ppm TOC for at any valves, flanges, and connectors, a maximum of 500.0 ppm fugitive TOC at any pumps, and are not to exceed 0.512 tons of POC in any 365 consecutive days. Full permit conditions available in Section VI.	Condition #25479 Part 13	P/Q	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.0 Storage Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput and vapor pressure	Condition #25785 Part 1	N		Throughput limit of 180,000 gallons of H ₂ S scavenger in any consecutive 12 months for S-4375 with TVP ≤ 1.4 psia	Condition #25785 Part 3	P/M	Recordkeeping
Composition	Condition #25785 Part 2	N		The formulation and quantities of materials stored in S-4375 may be changed if there is no net increase in emissions (868 #/year) and no toxic trigger levels are exceeded	Condition #25785 Part 3	P/M	Recordkeeping
Fugitives	Condition #25785 Parts 4-9	N		Number of installed fugitive components; requirements to offset emissions if "installed" fugitive components > "proposed" fugitive components; requirement for BACT compliant valves, connectors, and flanges to comply with 100 ppm leak standard; requirements for BACT compliant pump seals to comply with 500 ppm leak standard; BACT requirements for PRVs; total fugitive TOC are not to exceed 0.32 tons of POC in any consecutive 365-day period. Full permit conditions available in Section VI.	Condition #25785 Part 10	P/Q	LDAR Recordkeeping
Throughput	Condition #26558 Part 1	N		Throughput limit in any consecutive 12 months for: < 1,825 gallons	Condition #26558 Part 3	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.0 Storage Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Flexibility to store alternate materials	Condition #26558 Part 2	N		The type and quantities of materials stored in S-6022 may be changed if POC emissions (including fugitives) <0.54 TPY and no toxic trigger levels in Table 2-5-1 of Reg. 2-5 are exceeded	Condition #26558 Part 3	P/H/M	Recordkeeping
Fugitives	Condition #26558 Parts 4-9	N		Number of fugitive components permitted; requirements to offset emissions if “installed” fugitive components > “permitted” fugitive components; requirement for BACT compliant valves, flanges to comply with 100 ppm leak standard; requirements for BACT compliant pump seals to comply with 500 ppm leak standard; BACT requirements for PRVs; Full permit conditions available in Section VI.	Condition #26558 Part 10	P/Q	LDAR Recordkeeping
Throughput	Condition #26815 Part 1	N		Throughput limit in any consecutive 12 months for: S-4481 = 95 BBL S-4482 = 30.5 BBL S-4483 = 30.5 BBL	Condition #26815 Part 3	P/M	Recordkeeping
Flexibility to store alternate materials	Condition #26815 Part 2	N		The type and quantities of materials stored in S-4481 to 4483 may be changed if combined POC emissions (including fugitives) <0.402 TPY and no toxic trigger levels in Table 2-5-1 of Reg. 2-5 are exceeded	Condition #26815 Part 3	P/H/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.0 Storage Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Tanks with permit conditions only

S-~~252801~~, S-1894, ~~S-1909, S-1911~~, S-1913, S-1914, S-1915, S-1919, S-2920, ~~S-2921~~, S-6125, S-4360 Perc Storage Tank, S-4363 Perc Storage Tank, S-4363 Perc Storage Tank, S-4365 Tri-Act 1825 Chemical Tote, S-4366 TRI-ACT® 1803 and 1825 Chemical Tote, S-4367 TRI-ACT® 1803 and 1825 Chemical Tote, S-4368 TRI-ACT® 1803 and 1825 Chemical Tote, S-4369 TRI-ACT® 1803 and 1825 Chemical Tote, S-4370 Custamine® (CA-066P) Chemical Tote, ~~S-4372 NALCO EC9085A~~, S-4373 Corrosion Inhibitor, S-4374 Flocculent, S-4375 NALCO EC5491A Chemical Trailer Container storing H₂S scavenger, ~~S-4481 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-1501, S-4482 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-2501, S-4483 NALCO Tri-ACT 1805 Corrossion Inhibitor Storage Tank T-3504, S-6022 NALCO PORTA-FEED Senior~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #26815 Parts 4-9	N		Number of fugitive components permitted; requirements to offset emissions if "installed" fugitive components > "permitted" fugitive components; requirement for BACT compliant valves, flanges to comply with 100 ppm leak standard; requirements for BACT compliant pump seals to comply with 500 ppm leak standard; BACT requirements for PRVs; Full permit conditions available in Section VI.	Condition #26815 Part 10	P/Q	LDAR Recordkeeping

Table VII.F.1.1 Tanks (FRT's Cluster 10a)

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.2 Tanks (FRT's Cluster 01b)

**Table VII.F.1.2 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Cluster 01b**

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~,
 S-0397, S-0401, S-0501, S-0583,
 S-0900,
 S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052,
 S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493,
 S-1546, S-1636, S-1653, S-1679, S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540,
 S-3139, S-3142,
 S-3146, S-3148, S-3310
 S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165,
 S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194,
 S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113,
 S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129,
 S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201,
 S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213,
 S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227,
 S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147, S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS Exempt Per 8-5-117, Low Vapor Pressure (≤ 0.5 psia)						
Low Vapor Pressure	SIP Regulation 8-5-117	Y		The vapor pressure of material stored shall be less than 0.5 psia.	Regulation 8-5-117 And condition #20764	P/E	Vapor pressure monitoring upon stock change
Vapor Pressure	BAAQMD 8-5-117	N		The vapor pressure of material stored shall be less than 0.5 psia.	BAAQMD 8-5-117 And condition #20764	P/E	Vapor pressure monitoring upon stock change
Vapor Pressure	Condition #11024 Part 3	N		The vapor pressure of material stored shall be less than 0.3 psia.	Condition #11024 Part 4	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.2 Tanks
Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Cluster 01b

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~,
 S-0397, S-0401, S-0501, S-0583,
 S-0900,
 S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052,
 S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493,
 S-1546, S-1636, S-1653, S-1679, S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540,
 S-3139, S-3142,
 S-3146, S-3148, S-3310
 S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165,
 S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194,
 S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113,
 S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129,
 S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201,
 S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213,
 S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227,
 S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147, S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	Condition #11436 Part 3	N		The vapor pressure of material stored shall be less than 0.5 psia.	Condition #11436 Part 4	P/D	Recordkeeping
NSPS Kb	Volatile Organic Liquid Storage Vessels MONITORING FOR RECORDKEEPING ONLY						
VOC	60.116b (c)	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculate
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
	Condition #18137	N			Applies to S-0957, S-1653, S-3140	P/M	Recordkeeping
	Condition #11436	N			Applies to S-1653	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.2 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Cluster 01b**

S-0200A, S-0204, ~~S-0223, S-0225~~, S-0234, S-0290, ~~S-0291~~, S-0293, ~~S-0319~~,
 S-0397, S-0401, S-0501, S-0583,
 S-0900,
 S-0907, S-0910, S-0957, ~~S-0979~~, S-0984, S-1052,
 S-1149, ~~S-1431~~, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493,
 S-1546, S-1636, S-1653, S-1679, S-1723, S-1724, S-1725, ~~S-1908~~, S-1989, ~~S-2420, S-2421, S-2426, S-2445~~, S-2520, S-2540,
 S-3139, S-3142,
 S-3146, S-3148, S-3310
 S-1821, ~~S-2917, S-2918, S-3141~~, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165,
 S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194,
 S-3195, S-3215, S-3216, S-3226, ~~S-3234~~, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113,
 S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129,
 S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201,
 S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213,
 S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227,
 S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147, S-3185

External Floating Roof Tanks Cluster 01b

S-0955, ~~S-0956~~, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138, S-3182

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #4233 part 1	N		Applies to S- 1911 , 1913, 1914, 2917, 2918, 1908 , 1915, 1919, 2920, 2921	None	P/A	Recordkeeping
Throughput	Condition #10967 parts 1 and 2	N		Applies to S-1052	Condition #10967 part 3	P/M	Recordkeeping
Throughput	Condition #11228 parts 1 and 2	N		Applies to S-957	Condition #11228 part 4	P/D	Recordkeeping
Throughput	Condition #11024 Part 1	N		S-3185 throughput not to exceed 20,000,000 Bbls	Condition #11024 Part 4	P/M	Recordkeeping
Throughput	Condition #12580 part 1	N		S-1821 and S-1894 only to store sulfuric acid and phosphoric acid	None	P/E	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

Table VII.F.1.3 Tanks (FRT'S < 10,000 gallon Cluster 02)

**Table VII.F.1.3 Tanks
 Applicable Limits and Compliance Monitoring Requirements
 Fixed Roof Tanks < 10,000 gallon Cluster 02**

~~S-0021~~, S-4940

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS Exempt Per 8-5-117, Low Vapor Pressure (≤ 0.5 psia) SIP approved (44/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301, 8-5-117	Y	6/1/4	True vapor pressure determination	8-5-501.1	Periodic initially and upon change of service	Look up table or sample analysis
VOC	8-5-303.1	Y		P/V valve set pressure within 10% of max allowable working pressure or at least 0.5 psig	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm(as methane) above background	8-5-403, SIP 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC	8-5-110	Y		Exemption due to age and size	2-6-501	N	Record keeping
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per <10,000 gallon exemption)						
POC	40 CFR 61 Subpart FF	Y		Minimum VOC destruction removal efficiency: 95% by concentration weight or outlet < 500 ppmv organics		P/M	FID
Condition #18137		N			Applies to S-0021 ,		
Throughput	Condition #23001	N		Throughput limits	Cond# 23001.3 Applies to S-4940	P/M	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.4 Tanks (FRT's Wastewater Cluster 05)

**Table VII.F.1.4 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Wastewater Cluster 05**

~~S-0605 (S-0605 also in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement requirements for S-6200 through S-6219 are provided in Table II-B)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	SIP 8-5-503 #11193-S-0605 #10761 S-6200 through S-6219	P/D for S-6200 – 6219 and P/M for S-0605	FID and ST-4 (ST-4 no longer exists, replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC	8-5-110	Y		Exemption due to age and size	2-6-501	N	Record keeping
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks.						
NESHAP FF	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.4 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Fixed Roof Tanks Wastewater Cluster 05

~~S-0605 (S-0605 also in Wastewater Cluster 40b)~~, S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement requirements for S-6200 through S-6219 are provided in Table II-B)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 (c)	Continuous check daily	Specified parameter
	Condition #11193	N		Benzene concentration limit	Applies to S-0605	P/M	Recordkeeping
	Condition #10761	N		Benzene concentration limit	Applies to S-6200 through S-6219	P/M	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

Table VII.F.1.5 Tanks (EFRT's [MACT CC Records Cluster 11](#))

**Table VII.F.1.5 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating-Roof Tanks MACT CC Records Cluster 11

~~S-0232, S-0297, S-0298, S-0398~~, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.5 Tanks
Applicable Limits and Compliance Monitoring Requirements

External Floating-Roof Tanks MACT CC Records Cluster 11

S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #13597	Y			Applies to S-1798	P/M	Recordkeeping
Throughput	Condition #3697	Y			Applies to S-1799	P/M	Recordkeeping
Throughput	Condition #2238	Y		Applies to S-3100	Condition #2238.4	P/M	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
Throughput	Condition #25144 Part 1	N		Throughput limit of 4,802,722 barrels of JP-8, Jet A, or similar jet fuel in any 12 consecutive months for S-1292	Condition #25144 Part 7	P/D	Recordkeeping
Vapor Pressure	Condition #25144 Part 4	N		True vapor pressure of stored materials never to exceed 0.8 psia nor 0.5 psia on a monthly average for S-1292	Condition #25144 Part 4	P/M	Recordkeeping
Temperature	Condition #25144 Parts 3	N		The initial boiling point shall be maintained at a minimum of 290 degrees F on a monthly average basis and 302 degrees F on any consecutive 12 month basis for materials stored in S-1292.	Condition #25144 Parts 4 & 7	P/W	Recordkeeping
Composition	Condition #25144 Part 2	N		Only JP-8, Jet A, or similar jet fuel or exempt stock may be stored in S-1292, if there is no net increase in emissions and no toxic trigger levels are met or exceeded, subject to District conditions and approval.	Condition #25144 Part 2	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.5 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating-Roof Tanks [MACT CC Records Cluster 11](#)

[S-0232](#), [S-0297](#), [S-0298](#), [S-0398](#), S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fugitives	Condition #25144 Part 6	N Y?		S-1292 shall be tagged, inspected, and included in Chevron's LDAR program for all fugitive components. Full permit conditions available in Section VI.	Condition #25479 Part 7	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.6 Tanks (IFRT's [MACT CC Records Cluster 12](#))

Table VII.F.1.6 Tanks Applicable Limits and Compliance Monitoring Requirements

Internal Floating Roof Tanks [MACT CC Records Cluster 12](#)

S-1633

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-402, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-402, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-402, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.7 Tanks (FRT's Cluster 13)

**Table VII.F.1.7 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Fixed Roof Tanks Cluster 13

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-303.1	Y		P/V valve set (pressure within 10% of max allowable working pressure or at least 0.5 psig)	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm (as methane) above background	8-5-403, SIP 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	8-5-603.1	P/A	MOP Volume IV-ST-4 (ST-4 no longer exists; replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61-Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

Table VII.F.1.8 Tanks (FRT's Cluster 16)

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Table VII.F.1.9 Tanks (EFRT's NSPS K and MACT CC Cluster 17)

**Table VII.F.1.9 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS SIP (44/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS K	Petroleum Liquids Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	60.113 (a)	Y		True vapor pressure determination	60.113 (b) & (c)	Periodic initially and upon change of service	Calculate
VOC	60.113b (a2)	Y		Inspection of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.9 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks NSPS K and MACT CC Cluster 17

S-3101, S-3102, S-3129

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
40 CFR 63 Subpart CC Refinery MACT CC	Please refer to MACT CC monitoring requirements codified in Table VII.F.1.13 for EFRT Cluster 26						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
Throughput	Condition #21237, part 1	Y		Notification requirement regarding piping and pumping for S-1514 , 3072, and S-3101	Condition #21237 part 1	P/E	Recordkeeping and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.10 Tanks (EFRT's [NSPS Kb](#) and [MACT CC](#) Cluster 23)

**Table VII.F.1.10 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks [NSPS Kb](#) and [MACT CC](#) Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, [S-3220](#) [S-3225](#)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS SIP (11/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (b)(6)	Periodic initially & each time emptied & degassed	Visual inspection
VOC	60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	60.113b (b)(1)-(b)(3)	Periodic initially & at 5 yr intervals	Measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.10 Tanks
Applicable Limits and Compliance Monitoring Requirements

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, S-3220 S-3225

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	60.113b (b)(1)-(b)(3)	Periodic initially & annually	Measurement and visual inspection
VOC	60.116(b)(c)	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculation
VOC	60.113b(a2)	Y		Inspection of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records
40 CFR 63 Subpart CC Refinery MACT CC	Please refer to MACT CC monitoring requirements codified in Table VII.F.1.13 for EFRT Cluster 26						
Throughput	Condition 2856	N		3,500,000 bbl/y, max vapor pressure 10 psia avg vapor pressure 7.0	Condition 2856	P/M	recordkeeping
Throughput	Condition #6660, part 1	Y		throughput shall not exceed 12,000,000 barrels of non-exempt stock during consecutive 12-month period	Condition #6660, part 3 S-3189	P/M	Recordkeeping
Throughput	Condition #6661, part 1	N		throughput shall not exceed 7,300,000 barrels during consecutive 12-month period	Condition #6661, part 3 S-3190	P/M	Recordkeeping
Throughput	Condition #7583, part 1	Y		throughput shall not exceed 2,000,000 barrels of non-exempt stock during consecutive 12-month period	Condition #7583, part 4 S-3191	P/M	Recordkeeping
Throughput	Condition #8253, part 1	Y		throughput shall not exceed 9,500,000 barrels during consecutive 12-month period	Condition #8253, part 5 S-3193	P/M	Recordkeeping
Throughput	Condition #13467, part 1	Y		throughput shall not exceed 2,000,000 barrels during consecutive 12-month period	Condition #13467, part 5 S-3196	P/M	Recordkeeping
Throughput	Condition #8252, 13535 part 1	Y		throughput shall not exceed 4,000,000 barrels during consecutive 12-month period	Condition #8252, part 413535 S-3197	P/M	Recordkeeping
Throughput	Condition #8715, part 1	N		throughput shall not exceed 500,000 barrels during consecutive 12-month period	Condition #8715, part 3 S-3198	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.10 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks NSPS Kb and MACT CC Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, S-3220 S-3225

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #13008, part 1	Y		throughput of non-exempt stocks shall not exceed 7,300,000 barrels during consecutive 12-month period	Condition #13008, part 3 S-3201	P/M	Recordkeeping
Throughput	Condition #13364, part 1	Y		throughput of non-exempt stocks shall not exceed 4,000,000 barrels during consecutive 12-month period	S-3202		
Throughput	Condition #12139, part 1	Y		throughput of non-exempt stocks shall not exceed 9,100,000 barrels during consecutive 12-month period	Condition #12139, part 3 S-3213	P/M	Recordkeeping
Throughput	Condition #12104, part 1	Y		throughput of non-exempt stocks shall not exceed 3,000,000 barrels during consecutive 12-month period	Condition #12104, part 3 S-3214	P/M	Recordkeeping
Throughput	<u>Condition #18702 part 1</u>	<u>Y</u>		<u>Throughput limit for S-3225</u>	<u>Condition #18702 part 3</u>	<u>P/M</u>	<u>Recordkeeping</u>
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
Throughput	<u>Condition #17553</u>	<u>N</u>		<u>Throughput limit < 12,466,000 bbl in any consecutive 12-month period</u>	<u>Condition #17553</u>	<u>P/M</u>	<u>Recordkeeping</u>

Table VII.F.1.11 Tanks (IFRT's Cluster 24)

Table VII.F.1.11 Tanks (<u>IFRT's NSPS Kb and MACT CC Cluster 24</u>)							
Applicable Limits and Compliance Monitoring Requirements							
<u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u>							
S-1635, S-1637, S-3202, <u>S-3225</u>, <u>S-3228</u>, <u>S-3229</u>, S-3230, <u>S-3231</u>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24) Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u> S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS SIP (41/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24)							
Applicable Limits and Compliance Monitoring Requirements							
<u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u>							
S-1635, S-1637, S-3202 , S-3225 , S-3228 , S-3229 , S-3230 , S-3231							
Type of Limit	Citation of Limit	FE Y/ N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR IFRTs						
VOC	60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(1) & (4)	Y		Primary rim-seal standards; no holes or tears	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(2)	Y		No liquid on the floating roof or other obvious defects	60.113b (a)(2)	Periodic annually	Visual inspection
VOC	60.113b (a)(2)	Y		Inspection of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24) Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u> S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.116b (c)	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculate
40 CFR 63 Subpart CC Refinery MACT CC	Please refer to MACT CC monitoring requirements codified in Table VII.F.1.14 for IFRT Cluster 27						
VOC	Condition 1069	N		Organic vapor concentration	Condition 1069	P/Q	Concentration measurement and recordkeeping
Throughput	Condition #15671, part 1	N		throughput of non-exempt stocks shall not exceed 2,000,000 barrels during consecutive 12-month period	Condition #15671, part 4 S-3213	P/M	Recordkeeping
Condition #18137	Throughput limits					P/M	Recordkeeping
Throughput and benzene concentration	Condition #18702 Parts 1 and 2	Y		Throughput of non-exempt stock for S-3225 < 10,832,000 barrels in any 12 consecutive months. Total Benzene concentration < 4% by wt.	Condition #18702 Part 3	P/M	Recordkeeping, record retention, and emission calculations (where applicable)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24)							
Applicable Limits and Compliance Monitoring Requirements							
<u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u>							
S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231							

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Dome and seal requirements	Condition #18702 Part 4	Y		Tank fitting types and control techniques at S-3225 shall meet design criteria in Regulation 8, Rule 5 and requirements summarized in part 4 of permit condition 18702. Full permit conditions available in Section VI.	Condition #18702 Part 4	P/D	Integrate all fugitive equipment into LDAR program
Throughput	Condition #25037 Parts 1 & 2	Y		Throughput limit of 6,000,000 barrels of recovered oil in any 12 consecutive months or 38,000 in any calendar day for S-3229	Condition #25037 Part 16	P/M	Recordkeeping
Vapor Pressure	Condition #25037 Part 3	Y		True vapor pressure of stored materials not to exceed 10.3 psia for S-3229	Condition #25037 Part 16	P/M	Recordkeeping
Temperature	Condition #25037 Part 7	Y		S-3229 shall be equipped with a temperature measuring device with a set point of no more than 180F. Tank S-3229 shall be sampled prior to heating it heated -to above 120F to demonstrate vapor pressure compliance.	Condition #25037 Part 16	P/M	Recordkeeping
Composition	Condition #25037 Part 4	Y		S-3229 will store materials as recovered oil or other petroleum hydrocarbon material that with benzene, ethylbenzene, and naphthalene content not to exceed 2% by weight each. Stored materials subject to District conditions and approval.	Condition #25037 Part 4	P/Q	Recordkeeping
Fugitives	Condition #25037 Parts 8 to 14	Y		Fugitive emissions from S-3229 are to comply with a leak standard of 100 ppm TOC at any pumps, valves, flanges, and/or PRDs and are not to exceed 0.702 tons of POC in any 365 consecutive days. Full permit conditions available in Section VI.	Condition #25037 Part 15	P/D	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

<p>Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24)</p> <p>Applicable Limits and Compliance Monitoring Requirements</p> <p><u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u></p> <p>S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231</p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #25848 Part 1	Y		Throughput limit for S- 3230 3228 is 10,000,000 barrels of gasoline with TVP < 11 psia in any 12 consecutive months.	Condition #25848 Part 3	P/M	Recordkeeping, record retention, and emission calculations (where applicable)
Operational flexibility to store alternate materials	Condition #25848 Part 2	Y		If alternate materials are stored in S- 3230 3228 , POC emissions (including emissions from fugitive components) shall be < 28 pounds per day and < 4,424 pounds per year and TAC emissions shall not exceed Regulation 2, Rule 5 acute and/or chronic TAC trigger levels for S- 3230 3228 .	Condition #25848 Part 3	P/M	Recordkeeping, record retention, and emission calculations (where applicable)
Fugitives	Condition #25848 Parts 6 to 11	Y		Fugitive emissions from S- 3230 3228 shall comply with a leak standard of 100 ppm TOC at any valves, flanges, and connectors; a leak standard of 500 ppm TOC at any pump; PRD installed as part of A# 26252 at S- 3230 3228 shall comply with Regulation 8-5-303; new/additional PRDs shall comply with applicable requirements in Regulation 8, Rules 5, 18, and 28. Tank fitting types and control techniques at S- 3230 3228 shall meet design criteria in Regulation 8, Rule 5 and requirements summarized in table under part 11 of permit condition 25848. Full permit conditions available in Section VI.	Condition #25848 Part 10	P/D	Recordkeeping, record retention, and emission calculations (where applicable) Integrate all fugitive equipment into LDAR program

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24) Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u> S-1635, S-1637, S-3202, S-3225, S-3228, S-3229, S-3230, S-3231							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #25913 Part 1	Y		Throughput limit for S-3231 is 10,000,000 barrels of gasoline with TVP < 11 psia in any 12 consecutive months.	Condition #25913 Part 3	P/M	Recordkeeping, record retention, and emission calculations (where applicable)
Operational flexibility to store alternate materials	Condition #25913 Part 2	Y		If alternate materials are stored in S-3231, POC emissions (including emissions from fugitive components) shall be < 22 pounds per day and < 4,286 pounds per year and TAC emissions shall not exceed Regulation 2, Rule 5 acute and/or chronic TAC trigger levels for S-3231.	Condition #25913 Part 3	P/M	Recordkeeping, record retention, and emission calculations (where applicable)
Fugitives	Condition #25913 Parts 6 to 11	Y		Fugitive emissions from S-3231 shall comply with a leak standard of 100 ppm TOC at any valves, flanges, and connectors; a leak standard of 500 ppm TOC at any pump; PRD installed as part of A# 26319 at S-3231 shall comply with Regulation 8-5-303; new/additional PRDs shall comply with applicable requirements in Regulation 8, Rules 5, 18, and 28. Tank fitting types and control techniques at S-3231 shall meet design criteria in Regulation 8, Rule 5 and requirements summarized in table under part 11 of permit condition 25913. Full permit conditions available in Section VI.	Condition #25913 Part 10	P/D	Recordkeeping, record retention, and emission calculations (where applicable) Integrate all fugitive equipment into LDAR program

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.11 Tanks (IFRT's NSPS Kb and MACT CC Cluster 24)							
Applicable Limits and Compliance Monitoring Requirements							
<u>Internal Floating Roof Tanks NSPS Kb and MACT CC Cluster 24</u>							
S-1635, S-1637, S-3202 , S-3225 , S-3228 , S-3229 , S-3230 , S-3231							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #13364, part 1	Y		throughput of non-exempt stocks shall not exceed 4,000,000 barrels during consecutive 12-month period			
_____	_____	_____	_____	_____	_____	_____	_____

Table VII.F.1.12 Tanks (FRT's Cluster 25)

Table VII.F.1.12 Tanks (FRT's Wastewater Cluster 25)							
Applicable Limits and Compliance Monitoring Requirements							
<u>Fixed Roof Tanks Wastewater Cluster 25</u>							
S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 also included in Wastewater Cluster 40b)							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS SIP (44/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-303.1	Y		P/V valve set h pressure within 10% of max allowable working pressure or at least 0.5 psig	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm(as methane) above background	8-5-403, SIP 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.12 Tanks (FRT's Wastewater Cluster 25) Applicable Limits and Compliance Monitoring Requirements <u>Fixed Roof Tanks Wastewater Cluster 25</u> S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 also included in Wastewater Cluster 40b)							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	8-5-603.1	P/A	MOP Volume IV ST-4(ST-4 no longer exists, replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A	Method 21
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement, or a flare per 60.18	60.113b (c)(2) & (d)	P/D	FID Continuous temperature monitor
NESHAP FF	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.12 Tanks (FRT's Wastewater Cluster 25) Applicable Limits and Compliance Monitoring Requirements <u>Fixed Roof Tanks Wastewater Cluster 25</u> S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 also included in Wastewater Cluster 40b)								
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection	
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection	
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3110 and S-3111. Reduce organics by 95 weight % or < 20 ppmv organics dry basis, 3% O2 or > 0.5 seconds residence time @ greater than 1400F.	#4650	C	Temperature monitor	
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 (c)	Continuous check daily	Specified parameter	
POC	Condition #4650	Y		Applies to S-3110 and S-3111. Minimum temperature of 1000 degrees F, at least 98.5% by weight VOC abatement, POC emissions less than 1 lb/day, benzene emissions less than 0.04 lb/day	#4650 Part 5	C	Temperature monitor	
POC	Condition #10761	Y		Applies to S-6220 through S-6239. Control efficiency >99% or less than 100 ppm outlet hydrocarbon concentration	#10761 Part 9	P/M	FID	
Condition #18137	Throughput limits						P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.13 Tanks (EFRT's Cluster 26)

Table VII.F.1.13 Tanks ([EFRT's MACT CC Cluster 26](#))

Applicable Limits and Compliance Monitoring Requirements

External Floating Roof Tanks [MACT CC Cluster 26](#)

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075,

S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS SIP (11/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	YN		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
40 CFR 63 Subpart CC Refinery MACT CC	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR EFRTs						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Periodic initially & each time emptied & degassed	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.13 Tanks [\(EFRT's MACT CC Cluster 26\)](#)

Applicable Limits and Compliance Monitoring Requirements

External Floating Roof Tanks [MACT CC Cluster 26](#)

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, ~~S-1292~~, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, ~~S-1518~~, S-1687, S-1688, ~~S-1843~~, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, ~~S-3100~~, S-3126, S-3128, S-3133, S-3134, S-3144

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	Periodic initially & at 5 yr intervals	Measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	Periodic initially & annually	Measurement and visual inspection
Throughput	Condition #8503, part 1	Y		throughput of jet fuel components shall not exceed 1,000,000 barrels during consecutive 12-month period	Condition #8503, part 3 S-679	P/M	Recordkeeping
Throughput	Condition #10908 part 1	Y		Throughput limit for S-1489	Condition #10908 part 4	P/M	Recordkeeping
Throughput	Condition #10909, part 1	Y		throughput of non-exempt stocks shall not exceed 6,000,000 barrels during consecutive 12-month period	Condition #10909, part 4 S-992	P/M	Recordkeeping
Throughput	Condition #11025, part 1	Y		throughput of non-exempt stocks shall not exceed 30,000,000 barrels during consecutive 12-month period	Condition #11025, part 4 S-3106	P/M	Recordkeeping
Throughput	Condition #17470, part 1	Y		throughput of crude oil shall not exceed 50,000 barrels during consecutive 12-month period	Condition #17470, part 3 S-3126	P/M	Recordkeeping
Throughput	Condition #17470, part 2	Y		throughput of naphtha shall not exceed 365,000 barrels during consecutive 12-month period	Condition #17470, part 3 S-3126	P/M	Recordkeeping
Throughput	Condition #15038, part 1	Y		throughput of non-exempt stocks shall not exceed 15,000,000 barrels during consecutive 12-month period	Condition #15038, part 2 S-3133	P/M	Recordkeeping
Throughput	Condition #13859, part 1	Y		throughput of non-exempt stocks shall not exceed 10,000,000 barrels during consecutive 12-month period	Condition #13859, part 2 S-3134	P/M	Recordkeeping
Condition #18137	Throughput limits					P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.13 Tanks (EFRT's MACT CC Cluster 26)

Applicable Limits and Compliance Monitoring Requirements

External Floating Roof Tanks MACT CC Cluster 26

S-0231, ~~S-0634~~, S-0679, ~~S-0953~~, S-0954, S-0990, S-0991, S-0992, S-1287, S-1292, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, ~~S-1686~~, S-1518, S-1687, S-1688, S-1843, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3100, S-3126, S-3128, S-3133, S-3134, S-3144

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #, 21237, part 1	Y		Notification requirement regarding piping and pumping for S-1514 , S-3072 and S-3101	Condition #21237 part 1	P/E	Recordkeeping and reporting
Throughput	Condition # 22641, part 1			Throughput of material shall not exceed 3,495,000 barrels during consecutive 12-month period	Condition # 22641, part 7 S-1296	P/M	Recordkeeping
Throughput	Condition # 22641, part 3			Throughput of material shall not exceed 3,000,000 barrels during consecutive 12-month period	Condition # 22641, part 7 S-1514	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.14 Tanks (IFRT's subject to MACT CC and not subject to NSPS Cluster 27)

**Table VII.F.1.14 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Internal Floating-Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS SIP (41/27/026/5/03), BAAQMD (10/18/06)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR IFRTs						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.14 Tanks
Applicable Limits and Compliance Monitoring Requirements

Internal Floating-Roof Tanks subject to MACT CC and not subject to NSPS Cluster 27

S-1289, S-1645

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
HAP	63.646(a) 63.120 (a)(7)	Y		Primary rim-seal standards; no holes or tears	63.646(a) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection	
HAP	63.646(a) 63.120 (a)(7)	Y		Secondary rim-seal standards (if so equipped); no holes or tears	63.646(a) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection	
HAP	63.646(a) 63.120 (a)(4)	Y		Additional rim-seal standards; includes no gaps visible from the tank top	63.646(a) 63.120 (a)(2) & (3)	Periodic annually	Visual inspection	
HAP	63.646(a) 63.120 (a)(4)	Y		No liquid on the floating roof or other obvious defects	63.646(a) 63.120 (a)(2) & (3)	Periodic annually	Visual inspection	
throughput	Condition #21307	n		S-1645 Throughput, vapor pressure and benzene content	Condition 21307	P/M	recordkeeping	
Condition #18137	Throughput limits						P/M	Recordkeeping

Table VII.G.1.1 Wastewater Treatment Units (Cluster 10)

Table VII.G.1.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS (6458/29/94) LIMITS AND MONITORING FOR TREATMENT PROCESSES Regulation 8-8 does not address treatment of the waste stream. [There are monitoring requirements associated with exemptions for specified WMUs. Those requirements are listed in the templates for the applicable WMUs, and repeated below for reference.]						
Organic Compounds	SIP 8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	SIP 8-8-502	Periodic initially & semiannually	Sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Compounds	SIP 8-8-114	Y		Monitoring wastewater bypassing oil-water separator or DAF	SIP 8-8-501	Periodic upon occurrence	Sample analysis
BAAQMD Regulation 8 Rule 8	Organic Compounds–WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04) (INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS)						
Organic Compound	8-8-112	N		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	Periodic initially & semiannually	Sample analysis
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TREATMENT PROCESSES The 61 Subpart FF requirements related to control of air emissions for WMUs are listed in the templates for each WMU, and are not listed here under treatment processes.						
Wastewater (Benzene)	61.342 (e)	Y		6 Mg/yr benzene quantity (BQ) limit	61.342 (e)	Periodic annually	Flow measurement & sample analysis
HAP (Benzene)	61.343 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.343 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.343 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
POC	Condition #4650, part 9	Y		1000 F minimum operating temperature for A-3200	Condition #4650, part 9 S-3200	C	temperature monitoring
POC	Condition #4650, part 11	Y		nitrogen purge and vent gases vented to A-3200	Condition #4650, part 11 S-3200	C	flow monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition #4650, part 12	Y		no unintended leaks, depressurizations, or bypasses to atmosphere	Condition #4650, part 12 S-3200	C	pressure monitoring
POC	Condition #4650, part 13	Y		100 ppm concentration limit at S-3200 pump seals	BAAQMD 8-18-401.2 S-3200	P/Q	Method 21 inspection
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

Table VII.G.1.2 Wastewater ([Process Drains Wastewater Cluster 20D](#))

**Table VII.G.1.2 Wastewater
 Applicable Limits And Compliance Monitoring Requirements**

Process Drains Wastewater Cluster 20d

Process Drains not Subject to [NSPS QQQ*](#)

***Chevron has clarified process drains were not constructed, modified, or reconstructed after the NSPS QOO rule applicability date of May 4, 1987.**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS (6/458/29/94) INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS 8-8 has no monitoring requirements						
VOC	SIP 8-8-112	Y		Exemption from controls for low concentration of pollutants (records are required)	SIP 8-8-502	Periodic upon occurrence	Sample analysis and records
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						
Regulation 8 Rule 8	8-8-302.6	N		Roof seals, fixed covers, access doors and other openings inspected initially and semiannually thereafter.	8-8-503 and 8-8-603	Periodic initially & semiannually	Method 21
Regulation 8 Rule 8	8-8-306.2	N		70% by weight or greater reduction in total organics	8-8-503	P/semiannually	PID/FID or other approved method
VOC	8-8-312	N		Controlled wastewater collection system components at petroleum refineries	8-8-505	P/Semi-annually	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.2 Wastewater
 Applicable Limits And Compliance Monitoring Requirements**

Process Drains Wastewater Cluster 20d

Process Drains not Subject to NSPS QQQ*

*Chevron has clarified process drains were not constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987.

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	8-8-313	N		Uncontrolled wastewater collection system components at petroleum refineries	8-8-505	P/BI MON UNTIL 1/1/07 THEN P/SEMI-ANNUALLY	RECORDKEEPING
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						

Table VII.G.1.3 Wastewater (Process Drains Cluster 20q)

**Table VII.G.1.3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

**Process Drains Cluster 20q
 Process Drains Subject to QQQ**

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU, S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer,

S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and

At the following that don't have source #'s:

LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformat splitter, caustic scrubber and

Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:

S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU,

S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant,

S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Process Drains Cluster 20q
Process Drains Subject to QQQ

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU, S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer,

S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and

At the following that don't have source #'s:

LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformat splitter, caustic scrubber and

Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:

S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU,

S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant,

S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						
Organic compounds	8-8-302.6	N		Roof seals, fixed covers, access doors and other openings inspected initially and semiannually thereafter.	8-8-503 and 8-8-603	Periodic initially & semiannually	Method 21
Organic compounds	8-8-306.2,	N		70% by weight or greater reduction in total organics	8-8-503	P/semiannually	PID/FID or other approved method
Organic compounds	8-8-313	N		Uncontrolled wastewater collection system components at petroleum refineries	8-8-505	P/BI MON UNTIL 1/1/07 THEN P/SEMI-ANNUALLY	RECORDKEEPING
VOC	Condition 24085 parts 1, 4, and 5	N		A-32105 must meet 90% by weight or greater reduction in total organics, or 298 ppmv total organics in outlet stream for second to last carbon bed, 10 ppmv organics for the last carbon vessel, and 70 cfm flow rate, in addition to carbon change requirements.	Condition 24085 parts 2, 3 and 6	P/W/M	PID/FID or other approved method

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Process Drains Cluster 20q
Process Drains Subject to QQQ

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU, S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

S-4449 Hydrogen Plant Train #1, S-4450 Hydrogen Plant Train #2, S-4451 Hydrogen Recovery Unit, S-4454 #6 H2S Plant Recycle Amine, S-4283 No. 4 Catalytic Reformer, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer,

S-4282 Penhex Isomerization Plant, S-4435 #5 H2S Plant, S-4358 FCC Gasoline Hydrotreater and

At the following that don't have source #'s:

LSFO Hydrogen Booster, LSFO Utilities, naphtha splitter, reformat splitter, caustic scrubber and

Portions of drains at the following sources that were constructed, modified, or reconstructed after the NSPS QQQ rule applicability date of May 4, 1987:

S-4285 FCCU, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU,

S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant,

S-4251 Solvent Deasphalting Plant (SDA), S-4253 TKC Isocracker Plant,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						
NSPS QQQ	Petroleum Refinery Wastewater Systems LIMITS AND MONITORING FOR INDIVIDUAL DRAIN SYSTEMS Requirements shown are for compliance with 60.692-2, and do not address compliance with 60.693-1.						
VOC	60.692-2 (a)(1)	Y		Drains shall be equipped with water seal controls	60.692-2 (a)(2) & (3)	Periodic initially, plus monthly (if in-service) or weekly (if out-of-service)	Visual inspection
VOC	60.692-2 (a)(4)	Y		ALTERNATIVE Drains that are out-of-service may be equipped with a tightly sealed cap or plug	60.692-2 (a)(4)	Periodic initially, plus semiannually	Visual inspection
VOC	60.692-2 (b)(2)	Y		Junction box covers shall be sealed & kept in place, except during inspection and maintenance	60.692-2 (b)(3)	Periodic initially, plus semiannually	Visual inspection
VOC	60.692-2 (c)(1)	Y		Sewer lines shall be covered or enclosed	60.692-2 (c)(2)	Periodic initially, plus semiannually	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.G.1.4 Wastewater (Wastewater Cluster 30c)

**Table VII.G.1.4 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Separator Wastewater Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, ~~(S-6250 is in Cluster 60b)~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (6/15/8/29/94)						
VOC	8-8-114	Y		Monitoring wastewater bypassing oil-water separator or DAF	8-8-501	Periodic upon occurrence	Sample analysis
VOC	8-8-302.4	Y		ALTERNATIVE Gasketed fixed cover standards; includes 1,000 ppm leak standard	8-8-603 8-8-503 8-8-504	Periodic initially & semiannually	Method 21
VOC	8-8-303	Y		Gauging and sampling devices vapor tight	8-8-603	P/A	Method 21
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						
VOC	8-8-302.6	N		Roof seals, fixed covers, access doors and other openings inspected initially and semiannually thereafter.	8-8-503, 8-8-504 and 8-8-603	Periodic initially & semiannually	Method 21
VOC	8-8-306.2,	N		70% by weight or greater reduction in total organics	8-8-306.2	P/semiannually	PID/FID or other approved method
VOC	8-8-313	N		Uncontrolled wastewater collection system components at petroleum refineries	8-8-505	P/SEMI-ANNUALLY	RECORDKEEPING
VOC	Condition 24085 parts 1, 4, and 5	N		A-32105 must meet 90% by weight or greater reduction in total organics, or 298 ppmv total organics in outlet stream for second to last carbon bed, 10 ppmv organics for the last carbon vessel, and 70 cfm flow rate, in addition to carbon change requirements.	Condition 24085 parts 2, 3 and 6	P/W/M	PID/FID or other approved method
Condition #18137	Applies to S-4148, S-4413, S-4414						
Condition #26721	Applies to S-4413						

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.4 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Separator Wastewater Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, ~~(S-6250 is in Cluster 60b)~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations OIL-WATER SEPARATORS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						

Table VII.G.1.5 Wastewater (Tanks Cluster 40b)

**Table VII.G.1.5 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Non-EFRT or IFRT Wastewater Tanks Cluster 40b

S-3229

S-3110 & S-3111 DEBRU Surge Tanks abated by A-3200, S-3192 Desalter Effluent Skim Tank

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TANKS						
HAP (Benzene)	61.343 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3192. Reduce organics by 95 weight % or reduce benzene by 98% by weight.			

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.5 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

**Non-EFRT or IFRT Wastewater Tanks Cluster 40b
S-3229**

S-3110 & S-3111 DEBRU Surge Tanks abated by A-3200, S-3192 Desalter Effluent Skim Tank

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349(h)	Y		Control device standards {NOTE TO USER Delete this row for units that meet the conditions of 61.343(b)(1)}	61.354 (c)	<u>C</u> Continuous check daily	Specified parameter
POC	40 CFR 61 Subpart FF	Y		Minimum VOC destruction removal efficiency 95% by concentration weight or outlet < 500 ppmv organics, or minimum benzene destruction removal efficiency 98% by concentration weight, or outlet <10 ppmv benzene	61-349 condition #11193 part 9	P/E	Carbon Changeout
Throughput	Condition #11193, Part 1	Y		throughput for S-6011 shall not exceed 84.1 million gallons for any consecutive 12-month period	Condition #11193, Part 12 S-6011	P/M S-6011	records
POC	Condition #4650, parts 1 and 5	Y		at least 98.5% by weight VOC abatement	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 2 and 6	Y		POC emissions less than 1 lb/day from S-3110, S-3111, and S-3192 combined	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 3 and 7	Y		Benzene emissions less than 0.04 lb/day from S-3110, S-3111, and S-3192 combined	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 4 and 8	Y		Benzene concentration less than 1% by weight	S-3111, S-3192		
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.G.1.6 Wastewater (Tanks Cluster 45e)

**Table VII.G.1.6 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Wastewater Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02 6/5/03) LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	SIP 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	SIP 8-5-402	Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age	Visual inspection
VOC	SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	SIP 8-5-401	Periodic initially & at 5 or 10 yr intervals, depending upon rim seal age	Measurement and visual inspection
VOC	SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	SIP 8-5-402	Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age	Measurement and visual inspection
VOC	SIP 8-5-328	Y		Tank degassing	SIP 8-5-502 SIP 8-5-404	P/A	Source Test
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						
VOC	8-8-305.1	N		Visual inspection initially and semi-annually thereafter with no cracks or gaps greater than 0.125" and access doors and other openings are closed and gasketed properly	8-8-305.1	P/Initially and Semi-annually	Visual inspection
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (6/4 5/8/29/94)						
VOC	8-8-305.1	Y		Visual inspection initially and semi-annually thereafter with no cracks or gaps greater than 0.125" and access doors and other openings are closed and gasketed properly	8-8-305.1	P/Initially and Semi-annually	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.6 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Wastewater Tanks Cluster 45e

S-0231, ~~S-0232~~, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR EFRTs (Note: S-3126, S-3127, and S-3128 are not subject to monitoring requirements in NSPS Kb because they were constructed, reconstructed, or modified before July 23, 1984)						
VOC	60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (b)(6)	Periodic initially & each time emptied & degassed	Visual inspection
VOC	60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	60.113b (b)(2)-(b)(3)	Periodic initially & at 5 yr intervals	Measurement and visual inspection
VOC	60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	60.113b (b)(2)-(b)(3)	Periodic initially & annually	Measurement and visual inspection
VOC	60.116b (e)	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculation
40 CFR 63 Subpart CC Refinery MACT CC	Please refer to MACT CC monitoring requirements codified in Table VII.F.1.13 for EFRT Cluster 26						
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TREATMENT PROCESSES The 61 Subpart FF requirements related to control of air emissions for WMUs are listed in the templates for each WMU, and are not listed here under treatment processes.						
Benzene	Condition 23262 part 3			S-3127, 0.38% by weight benzene	Condition 23262 part 4	P/Q	Sample analysis
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
	Condition 23262	N		S-3127 Throughput limits and vapor pressure	Condition 23262 part 1, 2, 5	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.G.1.7 (Wastewater Cluster 50d)

**Table VII.G.1.7
 Applicable Limits and Compliance Monitoring Requirements**

Wastewater Cluster 50d

S-4393 Bioreactor

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP BAAQMD Regulation 8-8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS (6/458/29/94) SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS						
VOC	SIP 8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	SIP 8-8-502	Periodic initially & semiannually	Sample analysis/Record keeping
BAAQMD Regulation 8 Rule8	Organic Compounds – WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04) SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS						
VOC	8-8-112	N		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	P/ initially & semiannually	Sample analysis/Record keeping
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						
Throughput	Condition #18137	N		Throughput limit	Condition #18137	P/M	Record keeping
Odorous Emissions	Condition #15698 part 1+	N		Odorous Emission limit	Condition #15698 part 1+	P/E	Odor detection

Table VII.G.1.8 Wastewater (Containers Cluster 60b)

**Table VII.G.1.8 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Poly Tank abated by A-0630/A-0631 Carbon Canisters~~ Vessels 1A & B and 2A and B (Carbon Washout Poly Tanks for 1504 Tank also in Wastewater Cluster 10)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.8 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Poly Tank abated by A-0630/A-0631 Carbon Canisters~~ Vessels 1A & B and 2A and B (Carbon Washout Poly Tanks for 1504 Tank also in Wastewater Cluster 10)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS (6/158/29/94) CONTAINERS EXEMPT FROM CONTROLS						
VOC	SIP 8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	SIP 8-8-502	Periodic initially & semiannually	Sample analysis
VOC	SIP 8-8-114	Y		Monitoring for bypassing the oil water separator or air floatation device	SIP 8-8-501/502	P/E	Sample analysis
BAAQMD Regulation 8 Rule 8	Organic Compounds – WASTEWATER COLLECTION AND SEPARATION SYSTEMS (9/15/04) SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS						
VOC	8-8-112	N		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	Periodic initially & semiannually	Sample analysis
VOC	8-8-114	N		Monitoring for bypassing the oil water separator or air floatation device	8-8-501/502	P/E	Sample analysis
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.8 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Containers (Portable Wastewater Handling Units) Cluster 60b

Bins, Drums, Vacuum Trucks, ~~S-6250 Oil Water Separator Poly Tank abated by A-0630/A-0631 Carbon Canisters~~ Vessels 1A & B and 2A and B (Carbon Washout Poly Tanks for 1504 Tank also in Wastewater Cluster 10)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 (e), (d)	Continuous check daily for part e and P/D or 20% of design carbon replacement interval whichever is greater for part 61.354 (d)	Specified parameter
POC	Condition #12842, parts 2 and 3	Y		Applies to S-6250: Outlet stream VOC concentration of A-630 and A-631 <10% of inlet stream organics concentration, 95% reduction of organics, or <500 ppmv at outlet	Condition #12842, parts 4 to 7	P/D	FID monitoring
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

Table VII.H.1.1 VOC Sources (Cold Cleaners)

**Table VII.H.1.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Cold Cleaners

~~S-4420 (Exempt), S-4426 and, S-4427, S-4428~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-16-118	Y		Compounds with low volatility	8-16-502	P/E	Record keeping
VOC	Condition #17527 Part 1	Y		Initial boiling point >248F	#17527 Part 3	P/M	Record keeping
VOC	Condition #17527 Part 2	Y		Solvent limit of 100 gal per any consecutive 12-month period per solvent cleaner	#17527 Part 3	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.1.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Cold Cleaners

~~S-4420 (Exempt)~~, S-4426 and, ~~S-4427~~, S-4428

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-16-118	Y		Compounds with low volatility	8-16-502	P/E	Record keeping
VOC	Condition #17527 Part 1	Y		Initial boiling point >248F	#17527 Part 3	P/M	Record keeping
Through-put	Condition #18137	N		Table II-A	#18137 Part 2	P/M	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.H.2.1 VOC Sources (Fugitive Components)

Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-18-301	Y		General equipment leak \leq 100 ppm	None	N/A	Inspection
POC	8-18-302	Y		Valve leak \leq 100 ppm	8-18-401.2, or 8-18-404 or 8-18-401.3 (if inaccessible)	P/Q or P/A	Inspection
POC	8-18-303	Y		Pump and compressor leak \leq 500 ppm	8-18-401.2	P/Q	Inspection
POC	8-18-304	Y		Connection leak \leq 100 ppm	8-18-401.6 and 8-18-502	P/A or P/E	Inspection and Recordkeeping
POC	8-18-305	Y		Pressure relief valve leak \leq 500 ppm	8-18-401.2 or 8-18-401.3 (if inaccessible)	P/Q or P/A	Inspection
POC	8-18-305	Y		Pressure relief valve leak \leq 500 ppm	8-28-402	E	Inspection
POC	SIP 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	8-18-502.4	P/E	record keeping
POC	BAAQMD 8-18-306.1	Y		Any essential equipment leak must be less than 10,000 ppm and mass emissions must be determined within 30 days of placing on the nonrepairable list. The APCO must be notified no less than 96 hours prior to conducting mass emissions measurements.	8-18-502.4	P/E	record keeping
POC	SIP 8-18-306.2	Y		Awaiting repair Valves \leq 0.5% Pressure Relief \leq 1% Pump and Connector \leq 1%	8-18-502.4	PE	record keeping
POC	BAAQMD 8-18-306.2	N		Awaiting repair Valves \leq 0.315% Valves with Major Leaks \leq 0.025% Pressure Relief \leq 0.5% Pump and Connector \leq 0.5%	8-18-502.4	P/E	record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-18-306.3.3	Y		Total valve, pressure relief, pump or compressor leaks \geq 15 lb/day, they must be repaired within 7 days	8-18-502.4	P/E	record keeping
POC	BAAQMD 8-18-306.4	Y		Any essential equipment placed on the non-repairable list shall be repaired or replaced within five years or at the next scheduled turnaround, whichever date comes first.	8-18-502.4	P/E	record keeping
POC	8-18-307	Y		3 drops per minute and applicable leak standard	8-18-403	P/D	visual inspection
POC	SIP 8-28-301	Y		A person shall not use a pressure relief valve on any equipment if the concentration of organic compounds, measured within 1 cm from any leak in such valve exceeds 10,000 ppm (as methane) above background	SIP 8-28-401, 8-28-402, and 8-28-403	P/Q or P/E	Inspection, reporting, and records
POC	SIP 8-28-304	Y		PHA within 90 days and meet Prevention Measures Procedures. After 2 nd release Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency.	SIP 8-28-405	P/release per 5 calendar years	Record keeping
POC	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	P/E	Records
				40 CFR 60; Subpart QQQ			
POC	60.692-2	Y		Individual Drain Systems	60.692-2(a)(2)	P/initially and M	Visual/physical inspection for low water levels
		Y			60.692-2(a)(3) or 60.692-2(a)(4)	P/initially and W or P/initially and semi-annually	Visual/physical inspection
		Y		Junction Boxes	60.692-2(b)(3)	P/initially and semi-annually	Visual/physical inspection
		Y		Sewer Lines	60.692-2(c)(2)	P/initially and semi-annually	Visual/physical inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	60.692-3	Y		Oil-Water Separators	60.692-3(a)(4)	P/initially and semi-annually	Visual/physical inspection
POC	60.692-5(e)(1)	Y		Closed vent system < 500 ppm above background	60.692-5(e)(1)	P/ Semi-annual	Measure for leaks
POC	60.692-5(a)	Y		Closed vent system using combustion devices shall have 0.75 sec. residence and 816 degrees C.	60.692-5(e)(1) and 60.692-5(e)(5))	P/E and C	Repair the closed system to eliminate any emissions detected as soon as possible, but no later than 30 days from the date the emissions are detected. Temperature and flowrate monitoring
POC	60.692-5(b)	Y		Vapor recover >= 95%	60.695	C	Temperature or concentration depending on control device
POC	60.482-2(b)(1)	Y		Pump leak ≥ 10,000 ppm	60.482-2 (a)(1)	P/M	Measure for leaks
POC	60.482-2(b)(2)	Y		Pump leak Indicated by dripping liquid	60.482-2 (a)(2)	P/W	Visual Inspection
POC	60.482-2(e)	Y		Designated “No detectable emissions” ≤ 500 ppm	60.482-2(e)(3)	P/A	Measure for leaks
POC	60.482-2(g)	Y		If unsafe to monitor, monitor as frequently as practicable.	60.482-2(g)	P/E	Measure for leaks
POC	60.482-3	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	60.482-3 (e)(1)	P/C	Sensor with audible alarm or checked daily and record keeping
POC	60.482-4(a)	Y		Pressure relief valve (gas/vapor) leak < 500 ppm above background		P/E	Measure for leaks
POC	60.482-4(b)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks within 5 days after release and record keeping
POC	60.482-7(b) and (c)	Y		Valve leak ≥ 10,000 ppm	60.482-7(a), (b), and (c)	P/M	Measure for leaks
POC	60.482-7(b) and (c)	Y		Valve leak ≥ 10,000 ppm; 2 successive months w/o leaking	60.482-7(a), (b), and (c)	P/Q	Measure for leaks and record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.482-7(f)	Y		Designated "No detectable emissions" \leq 500 ppm	60.482-7 (f)(3)	P/A	Measure for leaks
POC	60.482-7(g)	Y		Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	60.482-7(g)	P/E	Demonstration of danger
POC	60.482-8(a)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection, or if a leak is seen, heard, or smelled	60.482-8(a)	P/E	Visible, audible, or olfactory Inspection and record keeping
POC	60.482-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak \geq 10,000 ppm	60.482-8(a)	P/E	Measure for leaks
POC	60.482-8 (b)	Y		Pump leak \geq 10,000 ppm	60.482-8 (a)	P/5 days	Visual, audible, olfactory Inspection; measure for leaks
POC	60.482-9 (d)	Y		Pumps under "Delay of repair" repaired, as soon as practicable, but within 6 months		P/E	Record keeping and recording
POC	60.482-10 (b)	Y		Closed-vent systems and control devices: Vapor recovery systems \geq 95%	60.482-10(e)	C	Temperature monitoring
POC	60.482-10 (c)	Y		Combustion devices \geq 95% destruction efficiency or \geq 0.75 seconds and \geq 816°C	60.482-10(e)	C	Temperature and flowrate monitoring
POC	60.482-10 (g)	Y		Closed-vent systems leak \geq 500 ppm and visible leak indication. First attempt to repair leak (visible or \geq 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	60.482-10 (f)	P/A	Measure for leaks; visual Inspection and record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.483 and 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking $\geq 10,000$ ppm.		P/Q P/A	Measure for leaks. Notify Administrator of election to comply with 60.483 or 61.243. Record keeping of percent of valves found leaking during each leak detection period.
POC	60.482-2a(b)(1)(ii)	Y	Post-Modernization	Pump leak $\geq 2,000$ ppm	60.482-2a(a)(1)	P/M	Measure for leaks
POC	60.482-2a(b)(2)	Y	Post-Modernization	Pump leak indicated by dripping liquid	60.482-2a(a)(2)	P/W	Visual Inspection
POC	60.482-2a(e)(2)	Y	Post-Modernization	Designated "No detectable emissions" ≤ 500 ppm	60.482-2a(e)(3)	P/A	Measure for leaks
POC	60.482-2a(g)	Y	Post-Modernization	If unsafe to monitor, monitor as frequently as practicable	60.482-2a(g)	P/E	Measure for leaks
POC	60.482-3a(d)	Y	Post-Modernization	Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	60.482-3a(e)(1)	P/C	Sensor with audible alarm or checked daily and record keeping
POC	60.482-4a(a)	Y	Post-Modernization	Pressure relief valve (gas/vapor) leak < 500 ppm above background		P/E	Measure for leaks
POC	60.482-4a(b)	Y	Post-Modernization	Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks within 5 days after release and record keeping
POC	60.482-7a(b) and (c)	Y	Post-Modernization	Valve leak ≥ 500 ppm	60.482-7a(a), (b), and (c)	P/M	Measure for leaks
POC	60.482-7a(b) and (c)(1)(i)	Y	Post-Modernization	Valve leak ≥ 500 ppm; 2 successive months w/o leaking	60.482-7a(a), (b), and (c)	P/Q	Measure for leaks and record keeping
POC	60.482-7a(f)(2)	Y	Post-Modernization	Designated "No detectable emissions" < 500 ppm	60.482-7a(f)(3)	P/A	Measure for leaks

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.482-7a(g)	Y	Post-Modernization	Allows relief from 60.482-7a(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	60.482-7a(g)	P/E	Demonstration of danger
POC	60.482-8a(a)	Y	Post-Modernization	Pumps, valves, and connectors in heavy liquid service. Pressure Relief devices in light or heavy liquid service: Leak shall be measured for leak in 5 days if detected by inspection, or if a leak is seen, heard, or smelled	60.482-8a(a)	P/E	Visible, audible, or olfactory Inspection and record keeping
POC	60.482-8a(b)	Y	Post-Modernization	Pressure Relief devices (liquid), pumps, valves, connectors (heavy liquid) leak $\geq 10,000$ ppm	60.482-8a(a)	P/E	Measure for leaks
POC	60.482-9a(d)	Y	Post-Modernization	Pumps under "Delay of repair" repaired, as soon as practicable, but within 6 months		P/E	Record keeping and recording
POC	60.482-10a(b)	Y	Post-Modernization	Closed-vent systems and control devices: Vapor recovery systems $\geq 95\%$ or an exit concentration of 20 ppmv, whichever is less stringent	60.482-10a(e)	C	Temperature monitoring
POC	60.482-10a(c)	Y	Post-Modernization	Combustion devices $\geq 95\%$ destruction efficiency or to an exit concentration of 20 ppmv, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent, or ≥ 0.75 seconds residence time and $\geq 816^{\circ}\text{C}$	60.482-10a(e)	C	Temperature and flowrate monitoring
POC	60.482-10a(g)	Y	Post-Modernization	Closed-vent systems leak ≥ 500 ppm and visible leak indication. First attempt to repair leak (visible or ≥ 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	60.482-10a(f)	P/A	Measure for leaks: visual Inspection and record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.483a and 8-18-404.1	Y	Post-Modernization	Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥500 ppm		P/Q P/A	Measure for leaks. Notify Administrator of election to comply with 60.483a. Record keeping of percent of valves found leaking during each leak detection period.
POC	61.349 (a)(1)(i)	Y		Closed-vent systems <500 ppm above background	61.349 (a)(1)(i)	P/A	Measure for leaks
POC	61.242-2 (b)(1)	Y		Pump leak ≥ 10,000 ppm	61.242-2 (a)(1)	P/M	Measure for leaks
POC	61.242-2 (b)(2)	Y		Pump leak Indicated by dripping liquid	61.242-2 (a)(2)	P/W	Visual Inspection
POC	61.242-2(e)	Y		Designated “No detectable emissions” ≤ 500 ppm	61.242-2(e)(3)	P/A	Measure for leaks
POC	61.242(g)	Y		If unsafe to monitor, monitor as frequently as practicable.	61.242-2(g)	P/E	Measure for leaks
POC	61.242-2 (h)	Y		Pump leak Indicated by dripping liquid at unmanned sites	61.242-2 (h)	P/M	Visual Inspection
POC	61.242-10 (d)	Y		Pumps under “Delay of repair” repaired within 6 months		N	Record keeping
POC	61.242-3	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	61.242-3 (e)(1)	P/C	Sensor with audible alarm or checked daily and record keeping
POC	61.242-4(a)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm above background		P	Measure for leaks
POC	61.242-4(b)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks and record keeping
POC	61.242-7(b)	Y		Valve leak ≥ 10,000 ppm	61.242-7(a)	P/M	Measure for leaks and record keeping
POC	61.242-7(b) and 7(c)	Y		Valve leak ≥ 10,000 ppm; 2 successive months w/o leaking	61.242-7(b) and (c)	P/Q	Measure for leaks

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.H.2.1 VOC Sources
Applicable Limits and Compliance Monitoring Requirements

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	61.242-7(f)	Y		Designated "No detectable emissions" ≤ 500 ppm	61.242-7 (f)(3)	P/A	Measure for leaks
POC	61.242-7(g)	Y		Allows relief from 61.242.7(a) monitoring if designated as unsafe-to-monitor.	61.242-7(g)	P/E	Demonstration of danger
POC	61.242-8(a)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection if detected by inspection, or if a leak is seen, heard, or smelled	61.242-8(a)	P/E	Visible, audible, or olfactory Inspection and record keeping
POC	61.242-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak ≥ 10,000 ppm	61.242-8(a)	P/E	Measure for leaks
POC	61.242-11 (b)	Y		Closed-vent systems and control devices: Vapor recovery systems ≥ 95%	61.242-11(e)	P/1/2 breakthrough	method 21
POC	61.242-11 (c)	Y		Combustion devices ≥95% destruction efficiency or ≥0.50 seconds and ≥760°C	61.242-11(e)	C	Temperature and flowrate Monitoring
POC	61.242-11 (f)	Y		Closed-vent systems leak ≥ 500 ppm and visible leak indication. First attempt to repair leak (visible or ≥= 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	61.242-11 (f)	P/A	Measure for leaks and visual Inspection and record keeping
POC	61.243 and 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.		P/Q P/A	Measure for leaks. Notify Administrator of election to comply with 60.483 or 61.243. Record keeping of percent of valves found leaking during each leak detection period.
POC	61.349	Y		Standards for closed vent systems and control devices	61.349(f) and 61.354(c)	Initially and P/Q	Sampling and record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	61.349(g)	Y		Repair any detectable emissions within 15 calendar days after the emissions are detected	61.356(h)	P/E	Recordkeeping
POC	61.349 (a)(2)	Y		Design and operation of control device	61.354	C for combustion and P/D or 20% of design carbon replacement interval whichever is greater for carbon	Temperature Monitor for combustion and method 21 or other method approved by administrator for carbon
POC	Condition #8869 parts 1 and 2	Y		Applies to A-620, A-622, A-623, A-624,627, A-628 95% by weight reduction of VOCs and minimum temp of 1500F and 1565 F, respectively	Condition #8869 parts 3 and 4	C	Temperature Monitor
Vent Stream Flow	61.349(a) (1)(ii)	Y		Vent stream flow indicator	61.349(a)(1)(ii)	P/every 15 minutes under certain circumstances	Flow indicator
H2S	40 CFR 60 Subpart J 60.104 (a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
TOC & POC	Condition #24671 Parts 1-10	N		Fugitive emissions from S-4440 are to comply with a leak standard of 100ppm TOC at any valves, flanges, or connectors; a maximum of 100ppm of TOC at any pumps; and are not to exceed 0.718 tons of POC in any 365 consecutive days. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #24671 Part 11	P/M/Q	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC & POC	Condition #25176	N		Fugitive emissions from S-4441 are to comply with a leak standard of 100ppm TOC at any valves, flanges, or connectors; and are not to exceed 0.854743 tons of POC in any 365 consecutive days. Full permit conditions available in Section VI.	BAAQMD Regulation 8-18-302 through 8-18-304, Condition #25176 Part 10	P	Recordkeeping
Condition #23201	Applies to A-620, A-622, A-623, A-624, A-627, and A-628						
Part 1	Sources subject to NSPS Subparts A and J						
Condition 24433	Applies to S-4252, S-4253, S-4348 , S-4435						
Condition #24671	Applies to S-4440						
Condition #25176	Applies to S-4441						
Condition #24136 (Post modernization)	Applies to Hydrogen Purity Improvements and/including S-4449, S-4450, S-4451, S-4471, S-4472, S-6021						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.H.3.1 VOC Sources (Paint Booth)

Table VII.H.3.1 VOC Sources

Applicable Limits and Compliance Monitoring Requirements

Paint Booth and Printers

S-4410, S-4424, S-7601

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-3-302	Y		Content of air dried coating < 250 g/l	8-3-403	P/E	Labeling & recordkeeping
	8-3-304	Y		Content of coatings < specified VOC content	8-3-403	P/E	Labeling & recordkeeping
	8-4-302.1	N		5 tons/yr (each source)	8-4-501	P/A	Recordkeeping
	8-4-302.2	N		Capture/Control ≥ 85%	8-4-501	P/A	Recordkeeping
	8-4-302.3	N		≤3.5 lb/gal (alternative to 5 ton Limit)	8-4-501	P/A	Recordkeeping
	SIP 8-4-302.1	Y		5 tons/yr (each source)	8-4-501	P/A	Recordkeeping
	8-19-110	Y		<20 gal/yr of any coating and <100 gal/yr total	8-19-405 & 8-19-501	P/A	Petition and Recordkeeping
	8-31-111	Y		<20 gal/yr of any coating and <55 gal/yr total	8-31-403.4 & 8-31-501	P/W	Record keeping
	8-32-111	Y		<20 gal/yr	None	P/E	Recordkeeping
	Condition #5640 Part 1			Coating limit of 500 gal per consecutive 12-month period	#5640 Part 4	P/M	Recordkeeping
	Condition #5640 Part 3			Cleanup solvent limit of 55 gal per consecutive 12-month period	#5640 Part 4	P/M	Recordkeeping
	Condition #21165 part 1 and 2	N		POC limit annual and daily	Condition #21165 part 4	P/M	recordkeeping
	Condition #22266 Part 1 and 2	N		Ink and Cleanup solvent annual limit	Condition #22266 Part 3	P/M	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.H.4.1
Applicable Limits and Compliance Monitoring Requirements
Fenceline Monitoring

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE</u> <u>Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
HAP (Benzene)	63.658(f)(3)	Y		Action level of 9 $\mu\text{g}/\text{m}^3$ benzene on an annual average basis (note that this is not a limit for an individual monitor)	63.658	Continuous 14-day sampling periods to start; sampling frequency may be reduced over time depending on results	Passive monitors

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally *found* in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits *included* in Section VII, Applicable Limits & Compliance Monitoring Requirements, of this permit.

Table VIII – Test Methods

Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP 6-301 and BAAQMD 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions EPA Method 9
SIP 6-304 and BAAQMD 6-1-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
SIP 6-310 and BAAQMD 6-1-310	Total Suspended Particulate (TSP) Concentration Limits Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
SIP 6-311 and BAAQMD 6-1-311	Total Suspended Particulate (TSP) Weight Limits: General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5
SIP 6-601 and BAAQMD 6-1-601	Applicability of Test Methods Particulate Matter Sampling	Common test methods cited in Regulation 6 shall apply, including the methods cited in Regulation 6-601: Assessment of Visible Emissions, and Regulation 6-602: Assessment of Opacity. Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
6-5-301 6-5-403	Ammonia Emission Limit	Determine amount of ammonia emitted using Regulation 1, Section 522 NOx and oxygen monitors, and Continuously measure the injection or addition rate of ammonia, urea, or other nitrogen-based additive using Regulation 1, Section 523 parametric monitors, or Utilize other APCO-approved ammonia emission monitoring system.
8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
8-3-301	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
8-3-302	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings

VIII. TEST METHODS

Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-3-304	VOC Limits	Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
SIP and BAAQMD 8-4-302	Solvent and Surface Coating Requirements, VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer
8-4-302.3	Surface Coating, VOC Content	Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
8-5-117, 8-5-301	Limited Exemption, Low Vapor Pressure; Storage Tanks Control Requirements	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-5-301	Tank Emission Control System Requirements, 95% Abatement Efficiency	Manual of Procedures, Volume IV, ST-4
8-5-303.2, 8-5-306, 8-5-307	Gas Tight Requirements for Organic Liquid Storage Tanks	Organic compounds shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A)
8-5-304	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table I
8-5-328.2	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
8-5-320.3	Pressure vacuum leak concentration	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
SIP and BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-5-602	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
SIP 8-5-603 and BAAQMD 8-5-603	Determination of Emissions	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units; ST-7 Organic compounds
SIP 8-5-605 and BAAQMD 8-5-605	Pressure-Vacuum Valve Gas Tight Determination	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
8-6-502	Portable Hydrocarbon Detector	EPA Reference Method 21 (40 CFR 60, Appendix A) Determination of Volatile Organic Compounds Leaks

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-6-601	Efficiency and Rate Determination	Manual of Procedures, Volume IV, ST-3, Bulk Plants, Emission Factor Determination, or ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-6-603	Analysis of Samples, True Vapor Pressure	Manual of Procedures, Volume III, Method 28, Determination of Vapor Pressure of Organic Liquids From Storage Tanks
8-6-604	Determination of Applicability	EPA-450/3-87-026 (Exhibit A-2 in Appendix A or Appendix D), or Standard reference texts, or for liquid mixtures, use Raoult's Law of Partial Pressures as defined in Section 8-6-205 or ASTM Method D 2879-83
8-7-301	Phase I Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Gasoline Vapor Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency
8-7-302	Phase II Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles
8-8-301 8-8-302	Vapor tight cover	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
8-8-601	Wastewater Analysis for Organic Compounds	Manual of Procedures, Volume III, Lab Method 33, Determination of Dissolved Critical Volatile Organic Compounds in Wastewater Separators
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A)
8-8-601	Wastewater Analysis for Critical OCs	Samples of wastewater shall be taken at the influent stream for each unit and analyzed for the concentration of dissolved critical organic compounds as prescribed in the District's Manual of Procedures, Volume III, and Lab Method 33.
8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A)
BAAQMD Regulation 8-18	Equipment Leaks (9/15/04/12/16/15)	
8-18-301 8-18-302 8-18-303 8-18-304 8-18-305	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
8-18-306 , 8-18-311 8-18-306	Non-repairable Equipment: Mass Emissions Determination of mass emissions	EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 or a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995

VIII. TEST METHODS

Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP 8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices (95% control requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
SIP 8-18-113	Exemption, Initial Boiling Point	ASTM D-1078-98 or ASTM D-86, Initial Boiling Point
SIP 8-18-302, 8-18-303, 8-18-304, 8-18-305, 8-18-501	Leak Inspection Procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
SIP 8-18-306	Non-repairable Equipment; Mass Emissions	EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 or a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO
8-19-302, 8-19-312	Surface Coating, VOC Content	Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
8-19-302, 8-19-312, 8-19-313	Determination of VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer
8-31-302, 8-31-306, 8-31-309	Surface Coating, VOC Content	Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
8-31-302, 8-31-306, 8-31-309, 8-31-310	Determination of VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-32-302	Surface Coating, VOC Content	Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
8-32-302	Determination of VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer
8-33-603	Vapor Recovery System Loading Pressure	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
8-33-604	Vapor Tight – Delivery Vehicles	Manual of Procedures, Volume IV, ST-33, Gasoline Cargo Tanks
8-33-605	Analysis of Samples	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-44-304.1 , 8-44-601 SIP 8-44-301 and BAAQMD 8-44-304.1	Determination of Emission Factors and Equipment Control Equipment Efficiencies POC emission rate limitation during vessel loading	Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units, or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions, or EPA Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or alternate method approved in writing by the APCO and U.S. EPA Manual of Procedures, Volume IV, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-44-305.1 , 8-44-305.2 SIP 8-44-304.1 and BAAQMD 8-44-603	Leak Determinations Tank vessel is leak free and gas tight	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks (40 CFR 60, Appendix A), or by an alternate method approved in writing by the APCO and U.S. EPA EPA Method 21, Determination of Volatile Organic Compounds Leaks
8-44-604	Flash Point Determinations	ASTM Standard Test Method D56 (“Standard Test Method for Flash Point by Tag Closed Cup Tester”) or ASTM Standard Test Method D93 (“Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester”), whichever is applicable, or by an alternate method approved in writing by the APCO and U.S. EPA.
SIP 8-44-301.1 , 8-44-301.2	POC emission rate limitation during marine tank vessel loading	Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
SIP 8-44-303 , 8-44-304	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks

VIII. TEST METHODS

Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks
8-53-218.2.1	Analysis of Materials, True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28: Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-53-218.2.2	Analysis of Materials, Percent Water Volume	ASTM D96: Test Methods for Water and Sediment in Crude Oil by Centrifuge Method (Field Procedure), ASTM D1796: Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure), ASTM D6304: Karl Fisher Water in Petroleum Products, or percent water volume may be observed and calculated from a mixed, representative sample collected as specified by ASTM D4057: Standard Practice for Manual Sampling of Petroleum and Petroleum Products and allowed to settle in a graduated cylinder
8-53-301.1 , 8-53-501	Emission Limit (Regulated Materials): TOC Limit	EPA Reference Methods 21 or 25A or BAAQMD Manual of Procedures, Volume IV, ST-7, Non-methane Organic Carbon Sampling, or APCO-approved alternative monitoring method
8-53-301.2 , 8-53-501	Emission Limit (Regulated Materials): Abatement Efficiency	Manual of Procedures, Volume IV, ST-7, or EPA Method 25 or 25A, or APCO-approved alternative monitoring method
9-1-301 9-2-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
9-1-313	NH3 and H2S abatement efficiency	Manual of Procedures, Volume III, Lab 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Lab 1, Determination of NH3 in Effluents
9-1-313.1	Sulfur in Fuel Limitation	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-1-313.2	Sulfur Removal and Recovery	Manual of Procedures, Volume III, Method 32, Determination of Hydrogen Sulfide in Process Water Streams and Method 1, Determination of Ammonia in Effluents
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring
9-8-301.1	NOx Limits for Rich Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-8-301.2	NOx Limits for Lean Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-8-301.3	CO Limits for Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-9-301.1.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.1.2	Emission Limits- Turbines Rated > 10 MW w/o SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.1.3	Emission Limits- Turbines Rated > 10 MW with SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-503	Deadline for Demonstration of Compliance with §9-9-301	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-601	Determination of Nitrogen Oxides	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-604	Determination of HHV and LHV	(1) ASTM D2015-85 for solid fuels; (2) ASTM D240-87 or ASTM D2382-88 for liquid hydrocarbon fuels; or (3) ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89 for gaseous fuels
9-10-301	Emission Limit for Facility, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-304	NOx emission limit for CO Boilers	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-305	CO emission limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
MOP Volume IV Source Test 7, 2	Organic compound concentration monitoring	EPA Method 25 or 25A
11-10-204.1	Total Hydrocarbon Leak Action Level (as measured in cooling tower water)	EPA Method 8015D with cooling water sampling at each cooling tower return line(s) and/or each heat exchanger exit line(s) prior to exposure to air following sampling methodology specified by BAAQMD Manual of Procedures; or Regulation 1, Section 523 continuous total hydrocarbon analyzer, located at each cooling tower return line to monitor cooling tower water prior to exposure to air.
11-10-204.2 , 11-10-304.2 , 11-10-304.3	Total Hydrocarbon Leak Action Level (as measured in stripped air)	Regulation 1, Section 523 continuous total hydrocarbon analyzer, located at the exit line for each heat exchanger or group of heat exchangers within the exchanger system prior to exposure to air, or APCO alternative monitoring method.
NSPS 40 CFR 60 Subpart A	New Source Performance Standards – General Provisions (02/17/14)	
60.18(c)(1)	Visible emission monitoring	EPA Method 22: Visible Emissions

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
NSPS 40 CFR 60 Appendix A	Inspection Procedures	EPA Reference Method 21
NSPS 40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (02/27/14)	
60.44b(a) 60.44b(e)	NO_x Emission Limit	40 CFR 60, Appendix B, Performance Specification 2
NSPS 40 CFR 60 Subpart Dc	Standards of performance for small industrial-commercial-institutional steam generating units (40/17/002/16/12)	
60.42c	SO2 Standard	
60.42c(d)	Oil fired: Emissions less than 0.50 lb/MMBTU OR oil with <0.5 weight sulfur	
60.43c	PM Standard	
60.43c(c)	Oil-fired: 20% opacity and 27% opacity for 6 min/hr	
NSPS 40 CFR 60 Subpart J	Standards of performance for Petroleum Refineries (12/1/1510/17/00)	
40 CFR 60, Subpart J, 102 (a) (1)	Limit on Particulate Matter from Catalyst Regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 102 (a) (1)	Limit on Particulate Matter from Catalyst Regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 102 (a) (2)	Limit on Opacity of gases from catalyst regenerator	Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
40 CFR 60, Subpart J, 102 (b)	Limit on particulate matter from catalyst regenerator where gases pass through an incinerator or waste heat boiler in which auxiliary or supplemental fuel is burned	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 103 (a)	Limit on carbon monoxide	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (a)	Limit on H2S content in fuel gas	Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart J, 60.104(a)(2)(i)	SO2 limit	EPA Method 6, Determination of sulfur dioxide emissions from stationary sources, or EPA Method 6c, Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 3, Gas analysis for the determination of dry molecular weight, or Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 4, Determination of moisture content in stack gases, and Method 15, Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources
40 CFR 60, Subpart J, 104 (b) (1)	Limit on sulfur oxide emissions from catalyst regenerator with add-on control device	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (b) (2)	Limit on sulfur oxide emissions from catalyst regenerator without add-on control device	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (b) (3)	Limit on sulfur content of fluid catalytic cracking unit feed	ASTM D129–64, ASTM D1552–83, ASTM D2622–87, or ASTM D1266–87
40 CFR 60 Subpart J 60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
40 CFR 60 Subpart J 60.106(f)(1)	SO2 concentration monitoring	EPA Method 6: SO2
40 CFR Subpart J 60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
40 CFR Subpart J 60.106(f)(3)	H2S concentration monitoring	EPA Method 3: O2
NSPS 40 CFR 60 Subpart Ja	Standards of Performance for Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after May 14, 2007 (12/1/15)	
40 CFR 60 Subpart Ja, 60.102a(f)(1)(i)	Limit on SO2 emissions from a sulfur recovery plant – relative accuracy evaluation	EPA Method 6, 6A, or 6C ANSI/ASME PTC 19.10-1981 “Flue and Exhaust Gas Analyses” is an acceptable alternative to EPA Method 6 or 6A
40 CFR 60 Subpart Ja, 60.102a(g)(1)(ii)	Limit on H2S emissions from an affected fuel gas combustion device – relative accuracy evaluation	EPA Method 11, 15, 15A, or 16 ANSI/ASME PTC 19.10-1981 “Flue and Exhaust Gas Analyses” is an acceptable alternative to EPA Method 15A

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart Ja, 60.102a(g)(2)(ii)	<u>Limit on NOx emissions from an affected fuel gas combustion device for a forced draft process heater– relative accuracy evaluation</u>	EPA Method 7, 7A, 7C, 7D, or 7E ANSI/ASME PTC 19.10-1981 “Flue and Exhaust Gas Analyses” is an acceptable alternative to EPA Method 7 or 7C
40 CFR 60 Subpart Ja, 60.103a(h)	<u>Limit on H2S emissions from an affected flare– relative accuracy evaluation</u>	EPA Method 15, 15A, or 16 ANSI/ASME PTC 19.10-1981 “Flue and Exhaust Gas Analyses” is an acceptable alternative to EPA Method 15A
40 CFR 60 Subpart Ja, 60.107a(d)(7)	Higher Heating Value	ASTM D240-02, ASTM D1826-94, ASTM D1945-03, ASTM D1946-90, ASTM D3588-98, ASTM D4809-06, ASTM D4891-89, GPA 2172-09, or any method specified in section 2.2.7 of Appendix D to part 75
NSPS 40 CFR 60 Subpart Kb	<u>Standards of Performance for Volatile Organic Liquid Storage Vessels (10/15/03)</u>	
60.112b (a)(3)(i)	<u>NSPS Subpart Kb Closed Vent System – leak detection</u>	40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 60, Subpart VV 60.485(b)
60.112b (a)(3)(ii)	<u>NSPS Subpart Kb Closed Vent System Performance (95% efficiency)</u>	40 CFR 60, Subpart Kb 60.113b(c) Testing and Procedures
60.113b (b)(4)(i)	<u>NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement</u>	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
60.113b (b)(4)(ii)	<u>NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement</u>	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
NSPS 40 CFR 60 Subpart CC		
40 CFR 60 Subpart CC	Test methods, procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
NSPS 40 CFR 60 Subpart GG		
40 CFR 60 Subpart GG 60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60 Subpart GG 60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60 Subpart GG 60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D1072-80, 90 (Reapproved 1994), Standard Method for Total Sulfur in Fuel Gases; ASTM D 3246-81, 92, 96, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry; ASTM D4468-85 (Reapproved 2000), Standard Test Method for Total Sulfur in Gaseous Fuels by Hydrogenolysis and Rateometric Colorimetry; or ASTM D6667-01, Standard Test Method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence. If total sulfur content of gaseous fuel during most recent performance test was less than 0.4 weight percent (4000 ppmw), the following methods may be used per 60.334(h)(1): - ASTM D4084-82, 94; - ASTM D5504-01; - ASTM D6228-98; or - Gas Processors Association Standard 2377-86.
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D129-00, Standard Test Method for Sulfur in Petroleum Products (General Bomb Method); ASTM D2622-98, Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-Ray Fluorescence Spectrometry; ASTM D4294-02; Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry ASTM D1266-98, Standard Test Method for Sulfur in Petroleum Products (Lamp Method); ASTM D5453-00, Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Motor Fuels and Oils by Ultraviolet Fluorescence; or ASTM D1552-01, Standard Test Method for Sulfur in Petroleum Products (High-Temperature Method);
NSPS 40 CFR 60 Subpart VV	Standards of Performance for Equipment Leaks Of VOC In The Synthetic Organic Chemicals Manufacturing Industry For Which Construction, Reconstruction, Or Modification Commenced After 1/5/81, and on or before 11/7/06 (6/2/08)	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
Subpart VV 40 CFR 60.482-2(b)(1), 60.482-7(b), 60.482-8(b), 60.482-10 (g),	Leak inspection procedures	60 Subpart VV, 60.485(b); EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.482-2(b)(2), 60.482-8(a),	Visual inspection	60 Subpart VV, 60.485(b)

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Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart VV 40 CFR 60.482-2(e), 60.482-4(a), 60.482-4(b), 60.482-7(f),	Leak inspection procedures	60 Subpart VV, 60.485(c): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.483 and 8-18-404.1	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
NSPS 40 CFR 60 Subpart VVa	Standards of Performance for Equipment Leaks Of VOC In The Synthetic Organic Chemicals Manufacturing Industry For Which Construction, Reconstruction, Or Modification Commenced After 11/7/06 (6/2/08)	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
Subpart VVa 40 CFR 60.482-2a(b)(1) 60.482-7a(b) 60.482-8a(b) 60.482-10a(g)	Leak inspection procedures	60 Subpart VVa, 60.485a(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VVa 40 CFR 60.482-2a(b)(2) 60.482-8a(a)	Visual inspection	60 Subpart VVa, 60.485a(b)
Subpart VVa 40 CFR 60.482-2a(e) 60.482-4a(a) 60.482-4a(b) 60.482-7a(f)	Leak inspection procedures	60 Subpart VVa, 60.485a(c): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
NSPS 40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/00)	
40 CFR 60 Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
40 CFR 60, Subpart QQQ 60.696	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	EPA Reference Method 21

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
NSPS 40 CFR 60 Appendix B	Performance Specifications	
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	
Performance Specification 7	H2S continuous emission monitoring systems	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures	
Procedure 1	QA requirements for gas continuous emission monitoring systems	
NESHAPS 40 CFR 61, Subpart FF	National Emission Standard for Benzene Waste Operations (12/4/03)	
40 CFR 61 Subpart FF 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR Subpart FF 61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
NESHAP Part 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (12/14/00)	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Vapor Recovery Units
Subpart V 40 CFR 61.242-2(b)(1), 61.242-7(b), 61.242-8(b)	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.242-2 (b)(2), 61.242-2 (g), 61.242-8(a)	Visual Inspection	61 Subpart V, 61.242-2 (b)
Subpart V 40 CFR 61.242-2(e), 61.242-4(a), 61.242-4(b), 61.242-7(f), 61.242-11 (f)	Leak inspection procedures	61 Subpart V, 61.245(c): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.243 and 8-18-404.1	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
NESHAPS 40 CFR 63, Subpart Y	NESHAPs for Marine Tank Vessel Loading Operations (4/20/0612/1/15)	
40 CFR 63, Subpart Y 562(c)(2)(iii)	Vapor tightness of marine tank vessel	40 CFR 63, 565(c)(1) Pressure Test for Marine Tank Vessel; and EPA Method 21 for Leak Test
40 CFR 63, Subpart Y 562(c)(3)	POC destruction/removal efficiency requirements	EPA Method 25 (for non-flare combustion device) EPA Method 25A (for recovery device) EPA Method 22 (for flare)
40 CFR 63, Subpart Y 562(c)(4)	1000 ppmv outlet VOC concentration	EPA Method 25 (for non-flare combustion device) EPA Method 25A (for recovery device) EPA Method 22 (for flare)
NESHAPS 40 CFR 63 subpart CC	National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/0312/1/15)	
40 CFR 63 Subpart CC 63.646(a)	Group 1 external floating roof tanks primary rim-seal gap measurement	
40 CFR 63 Subpart CC 63.646(a)	Group 1 external floating roof tanks secondary rim-seal gap measurement	
40 CFR 63 Subpart CC 63.654	Heat exchange system monitoring for leaks of total strippable hydrocarbon	“Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources” Revision Number One, dated January 2003, Sampling Procedures Manual, Appendix P: Cooling Tower Monitoring, prepared by Texas Commission on Environmental Quality, January 31, 2003
40 CFR 63 Subpart CC 63.658	Fenceline monitoring for benzene	EPA Method 325A and EPA Method 325B of Appendix A of 40 CFR 63
40 CFR 63 Subpart CC 63.670(h)	Visible emissions monitoring	EPA Method 22 of Appendix A-7 of 40 CFR 60 or video surveillance camera
NESHAPS 40 CFR 63, Subpart VV	NESHAPs for Oil-Water Separators and Organic Water Separators (6/23/03)	
40 CFR 63 Subpart VV, 63.1046	Test methods, procedures	Method 21 of 40 CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.
NESHAPS 40 CFR 63, Subpart UUU	NESHAPs for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units	
40 CFR 63 Subpart UUU 63.1571(a)(6)	HCN concentration measurement	EPA Method 320 of Appendix A of 40 CFR 63, ASTM D6348-03, or ASTM D6348-12e1 as specified in 40 CFR 63.1571(a)(6)(ii)(B)
California Air Resources Board (CARB)		

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Table VIII – Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition 18680, Part 2 for S-9304	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1B: “Rotatable Adaptor Torque Test”
BAAQMD Condition 18680, Part 2 for S-9304	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1C: “Drop Tube/Drain Valve Assembly”
BAAQMD Condition 18680, Part 2 for S-9304	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1D: “Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test”

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX-A-1 Combustion (Cogeneration)

**Table IX-A-1 Combustion
 Permit Shield for Non-Applicable Requirements**

Cogeneration

S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst

Citation	Title or Description (Reason not applicable)
NSPS Part 60 Subpart GG	Standards of Performance for Stationary Gas Turbines (2/24/06)
60.334 NOx Monitoring Provisions	Cogeneration Unit does not meet applicability requirements for 60.332 NOx emission standard. Hence, NOx monitoring, reporting, & recordkeeping provisions are not applicable.

Table IX-A-2 Sources (Fugitive Components)

**Table IX-A-2 VOC Sources
 Permit Shield for Subsumed Requirements**

Fugitive Components

Citation	Title or Description (Reason not applicable)
NSPS Part 60 Subpart VV	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/2/08)
60.482-7(h)	Allows relief from 60.482.7(a) monitoring if designated as difficult-to-monitor. BAAQMD Regulation 8-18-206 definition of inaccessible is more stringent. Both 60.482.7(h) and BAAQMD 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.
60.482-9(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
NESHAPS 40 cfr Part 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (12/14/00)
61.242-7(h)	Allows relief from 61.242.7(a) monitoring if designated as difficult-to-monitor. BAAQMD Regulation 8-18-206 definition of inaccessible is more stringent. Both 61.242.7(h) and BAAQMD 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.

IX. Permit Shield

**Table IX-A-2 VOC Sources
 Permit Shield for Subsumed Requirements**

Fugitive Components

Citation	Title or Description (Reason not applicable)
61.242-10(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
61.244	Subsumed by BAAQMD Regulation 8-18-308 that requires public noticing.

Table IX-A-3 Loading Terminals (Wharf)

**Table IX-A-3 Loading Terminals
 Permit Shield for Non-Applicable Requirements**

Wharf

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, ~~S-9325 Berth #9 Long Wharf 15 Risers~~, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, ~~S-9325~~ abated by A-0900 Marine Vapor Recovery)

Citation	Title or Description (Reason not applicable)
NESHAPS 40 cfr Part 63 Subpart R	National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/22/08)
63.422	No gasoline cargo trucks are loaded at the Richmond Wharf
63.423	No gasoline storage vessels are located at the Richmond Wharf
63.424	No gasoline cargo tanks are located at the Richmond Wharf

Table IX-B-2 Tanks (EFRT's Cluster 23)

**Table IX-B-2 Tanks
 Source-Specific Subsumed Requirements
External Floating Roof Tanks Cluster 23**

S-399, S-3180, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, S-3229

Citation	Title or Description (Reason not applicable)
BAAQMD Regulation 11-7	Hazardous Pollutants: Benzene (5/15/85)
11-7-401	Weekly visual inspection of pumps is also required by 40 CFR 61.242-2.
11-7-402	Initial report is also required by 40 CFR 61.247 (a).
11-7-403	Semiannual reports are also required by 40 CFR 61.247 (b)-(c).
11-7-501	Monthly monitoring of pumps and valves is also required by 40 CFR 61.242-2(a)(1), (e); 61.242-7(a), (f).
11-7-502	Recordkeeping is also required by 40 CFR 61.246.

IX. Permit Shield

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a “hybrid” monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

Table IX-B-1 Tanks (EFRT’s Cluster 17)

**Table IX-B-1 Tanks
 Source-Specific Subsumed Requirements**

External Floating Roof Tanks Cluster 17

S-3101, S-3102, S-3129

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IX-B-2 Tanks (EFRT’s Cluster 23)

**Table IX-B-2 Tanks
 Source-Specific Subsumed Requirements**

External Floating Roof Tanks Cluster 23

S-399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, ~~S-3202~~, S-3213, S-3214, ~~S-3220~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels SUBSUMED REQUIREMENTS FOR EFRTs - partial NSPS Kb requirements subsumed by Refinery MACT [section 63.640(n)(8)]		
60.113b(a)(5)	Fill or refill notification – subsumed by notification in BAAQMD Rule 8-5-111.11		
60.115b(b)	Reporting and Recordkeeping for EFRTs. Subsumed into the Refinery MACT requirements [Section 63.640(n)(8)(v) and (vi)]		

IX. Permit Shield

Table IX-B-3 Tanks (IFRT's Cluster 24)

**Table IX-B-3 Tanks
 Source-Specific Subsumed Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637, ~~S-3202~~, ~~S-3225~~, ~~S-3230~~ ~~S-3228~~, S-3229, S-3231

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels SUBSUMED REQUIREMENTS FOR IFRTs - partial NSPS Kb requirements subsumed by Refinery MACT section 63.640(n)(8)		
60.113b(a)(5)	Fill or refill notification – subsumed by notification in BAAQMD Rule 8-5-111.1		
60.115b(a)	Reporting and Recordkeeping for IFRTs. Subsumed into the Refinery MACT requirements [Section 63.640(n)(8)(v) and (vi)]		

Table IX-B-4 Tanks (EFRT's Cluster 26)

Table IX B-5 Tanks (IFRT's Cluster 27)

Table IX B-6 Combustion (Steam Generating Units)

**Table IX B-6 Combustion
 Source-Specific Subsumed Requirements**

Steam Generating Units

S-4070, S-4071, S-4072, S-4155

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart D {for source S-4070, S-4071, S-4072	Standards of Performance for Steam Generating Units		
60.45	Emission and Fuel Monitoring: Install CEMs and comply with applicable monitoring requirements of this subpart. Subsumed into the BAAQMD 9-10-502.1 requirement for a Monitoring Plan including a NOx and O2 CEM	Y	
NSPS 40 CFR 60 Subpart Db [for S-4155]	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (4/28/09 2/16/12)		
60.48b	Emission Monitoring for Nitrogen Oxides: Install, calibrate, and operate a NOx CEM. Subsumed into the BAAQMD 9-10-502.1 requirement for a Monitoring Plan including a NOx and O2 CEM.	Y	

IX. Permit Shield

Table IX B-6 Combustion Source-Specific Subsumed Requirements

Steam Generating Units S-4070, S-4071, S-4072, S-4155

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b	Reporting and Recordkeeping Requirements	Y	

X. REVISION HISTORY

Final Title V Permit:	December 1, 2003
Administrative Amendment (no application) Change in effective date for NOx Box and Flare Monitoring Administrative Amendment (Application 10324) Addition of NOx and O2 CEMs for S-4159 and S-4160	May 27, 2004
Reopening EPA Review (Application No. 9294): See Statement of Basis for details	December 16, 2004
Minor Revision (Application No. 9782): Change in throughput and vapor pressure limits for S-3202, Tank	December 16, 2004
Reopening (Application No.11695):	April 12, 2005
Reopening (Application No: 12429, 12602, 13570 & 14308) October 12, 2006	
Reopening (Application No. 13024):	April 5, 2007
Minor Revision (Application No. 17171): Change in the Responsible Official; Deletion of the annual throughput of S-4236 (No.4 Crude unit) in Table II.A.1.	April 17, 2008
Minor Revision (Application No. 17429 et al) Includes Applications: 6898, 8451, 14676, 15712, 15822, 15915, 16393 16591,16643, 17027, 17176, 17282, 17429, and 17452.	January 26, 2009
Renewal Title V Permit (Application No. 21614)	August 11, 2011
Minor Revision (Application No. 24427 et al) Includes Applications: 21463/21462, 22278/22277, 23070/23069, 22713/22634, 23413/23423, 21687/21677, 22927/22916, 22795/22794, 22723/22722, and 22108/21980 Change in responsible official and facility contact See Statement of Basis for details	August 1, 2014
Significant Revision (Application No. 26254 et al) Includes Applications (Title V/NSR): 26254/26252, 25542, 26757/26698, 26819/26811, 27086/27085, 24893/24892, 25406/25410, 25796/25793, 25961/25960, 26169/26168, 26685/26684 See Statement of Basis for details	February 28, 2018

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Renewal Title V Permit (Application 27756)

XX, 2019

Includes Applications (Title V/NSR): 14698/12842, 19402/19091, 25631/25630, 25747/25748, 26321/26319, 26890/26889, 27949/27948, 28219/28218, 28338/28337, 28493/28492, 28628/28627, 29038/29037, 29272/29271, NSR 29049, NSR 29160, NSR 25948, NSR 23827, 29221/29220, NSR 28535, NSR 28904, NSR 29005, 29495/29494, NSR 29866.

See Statement of Basis for details

XI. GLOSSARY

ACT — Federal Clean Air Act

Avgas-Aviation Gas

BAAQMD — Bay Area Air Quality Management District

BACT — Best Available Control Technology

CAA — The federal Clean Air Act

CAAQS — California Ambient Air Quality Standards

CEQA — California Environmental Quality Act

CFR — The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO — Carbon Monoxide

CO₂ — Carbon Dioxide

CVS-Closed Vent System

CWTS- Cooling Water Towers

Cumulative Increase — The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

DAF- “dissolved air flotation” unit

DEBRU- Desalter Effluent Benzene Removal Unit

District — The Bay Area Air Quality Management District

DSCF – Dry Standard Cubic Feet

EFRT- External Floating Roof Tank

EMP— Environmental Management Plan

EPA — The federal Environmental Protection Agency

ESP — Electrostatic Precipitator

Excluded — Not subject to any District regulations.

X. Glossary

Federally Enforceable, FE — All limitations and conditions that are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FCC — Fluid Catalytic Cracker

FID-Flame ionization detector (for measurement of hydrocarbons)

FP — Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FRT- Floating Roof Tank

GRU — Gas Recovery Unit

GWTU- Ground Water treatment unit

H₂S — Hydrogen Sulfide

H₂SO₄ — Sulfuric acid

HAP — Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

HC — Hydrocarbon

Hg — Mercury

HHV – Higher Heating Value

HNC — Heavy Neutral Hydrocracker

HNHF — Heavy Neutral Hydrofinisher

IFRT- Internal Floating Roof Tank **JHT**- Jet Hydrotreater

K-thousand

LNC — Light Neutral Hydrocracker

LNHF — Light Neutral Hydrofinisher

LPG- Liquified Petroleum Gas

LSFO- Low Sulfur Fuel Oil

X. Glossary

Major Facility — A facility with potential emissions of: (1) at least 100 tons per year of any regulated air pollutant, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MFR — Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

MOP — The District's Manual of Procedures

MTBE- Methyl Tertiary Butyl Ether

NA — Not Applicable

NAAQS — National Ambient Air Quality Standards

NESHAPS — National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

[NHV_{vg} – Net heating value of flare vent gas \(Btu/scf\). See 40 CFR 63.670.](#)

NMHC — Non-methane Hydrocarbons

NO_x — Oxides of nitrogen

NSPS — Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR — New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement — A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility — A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC — Precursor Organic Compounds

PM — Particulate Matter

PM₁₀ — Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

Process Unit – For the purpose of start-up and shutdown reporting, a unit is defined as found in 40 CFR Part 60 Subpart GGG, which states: Process Unit means components assembled to produce intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

X. Glossary

PSD — Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified “attainment” of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

PSV-Pressure Safety Valve

RLOP- Richmond Lube Oil Project

RLW- Richmond Long Wharf

SDA — Solvent Deasphalting

SIP — State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂ — Sulfur dioxide

SO₃ — Sulfur trioxide

SRU — Sulfur Recovery Unit

ST-7 — District Manual of Procedures, Vol. IV, ST-7 (source test procedures for non-methane organic compound sampling (BAAQMD Reg. 8))

Shutdown Reporting – For reporting purposes only, a shutdown shall be defined as any of the following; there is no process feed to a unit, no furnace fires, or the boundary blinds are installed.

Start-Up Reporting – For reporting purposes only, a start-up shall be defined as any of the following; the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A start-up only occurs following a shutdown unless it involves a newly constructed process unit.

TBD-To be determined

TDS-Total Dissolved Solids

Title V — Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TKC-Taylor Kinetic Cracking

TRMP-Toxic Risk Management Plan

TSP — Total Suspended Particulate

X. Glossary

TVP-True Vapor Pressure

V_{max} – [Maximum allowed flare tip velocity \(ft/sec\). See 40 CFR 63.670](#)

VGO- Vacuum Gas Oil

VOC — Volatile Organic Compounds

VR — Vapor Recovery

WMU – Wastewater Management Unit

WWT —Wastewater Treatment

Units of Measure:

bbbl	=	barrels
bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	million (in the Permit, “mm” typically refers to “millimeter”)
MM	=	million
MMBH	=	million Btu per hour
ppb	=	parts per billion
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfd	=	standard cubic feet per day
scfm	=	standard cubic feet per minute
yr	=	year

X. Glossary