

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Draft Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

Chevron Products Company

Facility #A0010

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Richmond, CA 94802

Mailing Address:

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Richmond, CA 94802

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Product: Petroleum

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ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

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

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

Table IV.F.1.2

Fixed Roof Tanks Cluster 01b

S-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0908, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1427, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also in Table IV.E.3.1 Sulfur Recovery), S-3142, S-3146, S-3148, S-3310

Internal Floating Roof Tanks Cluster 01b:

S-0328, S-1634, S-3147

External Floating Roof Tanks Cluster 01b:

S-1297, S-0955, S-0956, S-1292, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3127, S-3138

Table IV.F.1.3

Fixed Roof Tanks Cluster 02

S-0021, S-0660, S-6066

TANK AND WASTEWATER CLUSTER INDEX

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

S-1726, S-1727, S-1757, S-1758

Table IV.F.1.8

External Floating Roof Tanks Cluster 16

S-9302, S-9303

Table IV.F.1.9

External Floating Roof Tanks Cluster 17

S-3101, S-3102, S-3129

TANK AND WASTEWATER CLUSTER INDEX

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

Table IV.F.1.11

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

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

TANK AND WASTEWATER CLUSTER INDEX

Table IV.G.1.2

Wastewater Process Drains Not Subject to QQQ 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

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

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
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant
Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

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

1. This Major Facility Review Permit was issued on December 1, 2003, and expires on November 30, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 31, 2008 and no earlier than November 30, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after November 30, 2008.** (Regulation 2-6-307, 404.2, & 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. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (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)

I. STANDARD CONDITIONS

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.

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)

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, Regulation 3; MOP Volume II, Part 3, §4.7)

I. STANDARD CONDITIONS

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, Regulation 3; 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 December 1, 2003, to November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. 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 permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. 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)

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)

I. STANDARD CONDITIONS

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 for each source as shown in Table's II A1 and A2 is the maximum allowable capacity. Exceedance of the maximum allowable capacity 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]

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

II. EQUIPMENT

Table II A 1 - Permitted Sources (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-0610 | Tank | Abated Fixed Roof | N/A | 84 gal | N/A, limited by S-0605 and S-6066 | N/A, limited by S-0605 and S-6066 | 1,000,000 gal | Application #11562 No limit. Limited by source #6061 |
| 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-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-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-1635 | Tank | Internal Floating Roof | N/A | 155K gal | 2,000,000 | N/A | bbl non-exempt stocks | P/C# 15671 offsets = NSR |
| 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 = 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) |

II. Equipment

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|----------------------------|------------------------|-------|--------------------------------|---|-------------------------|-----------------------------|--|
| 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 | 538K 553.57 K gal | 50,000 | N/A | bbl recovered oil | P/C# 17470 offsets = NSR 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 |
| 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 | 5400K 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 | 5460K 5682.51K gal | 2,000,000 | N/A | bbl non-exempt stock | Conditioned annual throughput (non-exempt) |

II. Equipment

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|--|------------------------|-------|---------------------------------------|--------------------------|-------------------------|--|---|
| | | | | | | | | stock), P/C# 7583 design drawings submitted 1/16/4 |
| S-3193 | Tank | External Floating Roof | N/A | 6300K 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 | 8400K 8763.91 K gal | 4,000,000 | N/A | bbl limited to gasoline, sponge oil, sour water, naphtha feed, MTBE, reformate or TVP < 6.2 psia | Conditioned annual throughput, P/C# 8252 design drawings submitted 1/16/4 |
| 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), |

II. Equipment

Table II A 1 - Permitted Sources (New Source Review)

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|-------------------------|-------------------------------|---------------|--------------------------------------|--------------------------|-------------------------|--|--|
| | | | | | | | | P/C#13008 CFP |
| S-3202 | Tank | External Floating Roof | N/A | 4267K gal | 700,000 | N/A | Bbl hydrocarbon stock other than methanol with a vapor pressure <2.6 psia | Conditioned annual throughput, P/C# 13364 CFP |
| S-3213 | Tank | External Floating Roof | N/A | 14700K 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 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 | External Floating Roof | N/A | 4.55 MMgal | 10,832,000 | N/A | bbl | Condition #18702 |
| 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 P/C# 16698. 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 P/C# 16698 RLOP |
| S-4040 | #4 Rheniformer, F-3570 | Alcorn Combustion | HC-01403 | | 1,331,520 | 3,648 | million Btu HHV | Conditioned daily throughput |

II. Equipment

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|------------------------------|----------------------|--------------|----------|--------------------------|-------------------------|-----------------|---|
| | | | | | | | | P/C# 16698 RLOP |
| S-4041 | F-3580, #4 Rheniformer | Alcorn Combustion | HC-01403 | | 674,520 | 1,848 | million Btu HHV | Conditioned daily throughput P/C# 16698 RLOP |
| S-4044 | #5 Rheniformer F-570 | Foster Wheeler | N/A | | 683,280 | 1,872 | million Btu HHV | Conditioned daily throughput P/C# 18172 PA#8343 |
| S-4046 | Asphalt Plant F1 H.O. Heater | Petro-Chem | N/A | | 236,520 | 648 | million Btu HHV | PTO RLOP |
| S-4059 | #1 JHT Furnace #247 | Born Engineering Co. | H-265-73 | | 1,059,960 | 2,904 | million Btu HHV | Conditioned daily throughput P/C# 18003 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 P/C# 18003 RLOP |
| 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 P/C# 18015. 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# 18015. Appendix 9F-2 |

II. Equipment

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|---|---------------------------|----------------|----------|--------------------------|-------------------------|-----------------|--|
| | | | | | | | | 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# 18015. Appendix 9F-2 |
| S-4093 | Steam Heater F-11 Lube Div | | | | 79,856 | 219 | Million Btu HHV | PTO RLOP |
| S-4094 | Air Heater - Thermoform Unit Lube Div. | Peabody Engineering Corp. | N/A | | 79,856 | 219 | million Btu HHV | PTO RLOP |
| S-4095 | Wax Rerun Furnace F-210, Lube Div. | Petro-Chem | N/A | | 329,937 | 904 | million Btu HHV | Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently amended. Appendix 12.4 RLOP |
| S-4107 | Heat Treating Furnace No. 1 Boiler Shop | John R. Gearhart Co. | N/A | | 57,816 | 158 | Million Btu HHV | PTO RLOP |
| S-4118 | Emergency Fire Water Pump 15 | | | | | | | RLOP |
| S-4119 | Emergency Fire Water Pump 16 | | | | | | | RLOP |
| S-4127 | Emergency Electric Generator #1pp | | | | | | | RLOP |
| S-4153 | F-110 Asphalt Solution Heater SDA 150 Max | M.W. Kellogg | N/A | | 442,380 | 1212 | million Btu HHV | See Appendix 3B5. RLOP |
| 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 |

II. Equipment

Table II A 1 - Permitted Sources (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-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# 18387 |
| 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# 18387 |
| 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 P/C# 16731 RLOP |
| S-4165 | F-620 Isocracker Feed Furnace Isomax | Alcorn Combustion Co. | N/A | | 595,680 | 1,632 | million Btu HHV | Conditioned daily throughput P/C# 16731 RLOP |
| S-4166 | F-610 Isocracker Feed Furnace Isomax | Alcorn Combustion Co. | N/A | | 595,680 | 1,632 | million Btu HHV | Conditioned daily throughput P/C# 16731 RLOP |
| 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# 16731 RLOP |

II. Equipment

Table II A 1 - Permitted Sources (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-4169 | F-731 Isocracker Reboiler Isomax | Born Engineering Co. | N/A | | 2,277,600 | 6,240 | million Btu HHV | Conditioned daily throughput P/C# 16731 RLOP |
| S-4171 | F-355 Reforming Furnace, H2 Plant | Foster Wheeler | N/A | | 7,419,720 | 20,328 | million Btu HHV | Conditioned daily throughput limit P/C# 17973 & 12.5 RLOP |
| 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 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 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 |

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|--------------------------------------|----------------|-------|----------|--------------------------|-------------------------|-------------------------|---|
| S-4194 | F-2370 Tail Gas Heater #3 SRU | Contractor | N/A | | 491,436 | 1346 | million Btu HHV | original design RLOP |
| S-4227 | SRU #1 Train | Contractor | N/A | | 54,750 | 189.6 | long tons | Conditon #19063 |
| S-4228 | SRU #2 Train | Contractor | N/A | | 54,750 | 179 | long tons | Conditon #19063 |
| S-4233 | #1 Jet Hydrotreater | Bechtel | N/A | | 35,040,000 | 96,000 | bbbl | PTO RLOP |
| S-4234 | No. 5 Naphtha Hydrotreater | Bechtel | N/A | | 21,024,000 | 57,600 | bbbl | PTO RLOP |
| S-4235 | Diesel Hydrotreater | C.F. Braun | N/A | | 23,652,000 | 64,800 | bbbl | PTO app.#9014 '93 |
| S-4236 | No. 4 Crude Unit | C.F. Braun | N/A | | 88,659,000 | 257,200 | bbbl | RLOP C#469 |
| S-4238 | Liquefied Petroleum Gas Loading Rack | Fischer | N/A | | 10,000,000 | 27,400 | bbbl | Data form RLOP |
| S-4250 | Hydrogen Manufacturing Plant | Foster Wheeler | N/A | | 54,750* | 479.5 181.1 | million SCF H2 produced | Two trains, highest day different days. Post 79 apps justify annual limit RLOP |
| S-4252 | TKN Isocracker | Bechtel | N/A | | 18,709,900 | 60,900 | bbbl | See Appendix 3A4, 9P-4 & 12.10 RLOP |
| S-4253 | TKC Plant | Bechtel | N/A | | 23,725,000 | 65,000 | bbbl | Implied per application #9666 '90 data form |
| S-4261 | Wax Deoiler No. 2 | Bechtel | N/A | | 1,927,200 | 5280 | bbbl | RLOP data form '77 |
| S-4262 | Wax Rerun Plant | | N/A | | 1,664,400 | 4560 | bbbl | RLOP data form '77 |

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|------------------------------|---------------------------|-------------------|----------|--------------------------|-------------------------|-----------------|--|
| | | | | | | | | (historical data exceeds original design 190 bph) |
| S-4265 | Wax Refinishing | | N/A | | 2,338,920 | 6408 | | Data form '77 RLOP |
| 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 | H2SO4 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 |
| 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 |

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| Source Number | Description | Make or Type | Model | Capacity | Annual Throughput Limits | Daily Throughput Limits | Units | Basis |
|---------------|------------------------------------|----------------------------|-------------------|----------|---|----------------------------|--------------------------|--|
| 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 | | | 15,500 | bbl liquid reactor feed | RLOP |
| S-4341 | Light Neutral Hydrofinisher (LNHF) | N/A | N/A | | | 19,000 | bbl liquid reactor feed | RLOP |
| S-4342 | Heavy Neutral Hydrocracker (HNC) | N/A | N/A | | | 20,000 | bbl liquid reactor feed | RLOP |
| S-4343 | Heavy Neutral Hydrofinisher (HNHF) | N/A | N/A | | | 8000 | 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 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 | | 96,360 | 264 | 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 LHV | 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 | | million Btu HHV | 1986 cogen application. |

II. Equipment

Table II A 1 - Permitted Sources (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-4353) | | | Based on HHV. See appendix 2A7, 9F-9 & 12.16 |
| S-4352 | Gas Turbine with Steam Injection | ASEA Brown Boveri Turbines | N/A | | <u>15,051,300 (sum of S-4350 through S-4353)</u> | | 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 | | <u>15,051,300 (sum of S-4350 through S-4353)</u> | | 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 feed | Application #9978 CFP |
| S-4396 | Sulfur Truck Loading Racks | 2 Lawrence Pumps | N/A | | 216,330 | | long tons | See Appendix XII for daily limit. Annual limit based on source# 4227, 4228 & 4229. Appendix 9M-1, 12.2 & 13.1. RLOP |
| S-4402 | Salt Furnace | National Air Oil Burner Co | N/A | | 43,800 | 120 | million Btu HHV | See Appendix 10.3 RLOP |
| S-4403 | Unrefined Wax Truck Loading Rack | | | | | | | RLOP |

II. Equipment

Table II A 1 - Permitted Sources (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-4404 | Saturated Refined Wax Truck Loading Rack | | | | | | | RLOP |
| 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 | gal | PTO condition #1331 and data form |
| S-4426 | Cold Cleaner | Graymills Clean-O-Matic | 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 | N/A | | 100 | N/A | gal | Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR |
| S-4428 | Cold Cleaner | Graymills Clean-O-Matic | N/A | | 100 | N/A | gal | Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR |
| S-6010 | High Level Flare, | John Zink | STF SA365 | | 34,711.5* | 95.04 | million Btu | Data form |

II. Equipment

Table II A 1 - Permitted Sources (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 |
|---------------|---|--|-------|----------|---------------------------------------|-------------------------|--------------------------------------|---|
| | LSFO | | | | | | HHV | used HHV RLOP |
| 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-6039 | Lube Flare, V-3501 | 48 Inch | N/A | | 19,053 | 52.2 | million Btu HHV | times 1.0476 RLOP |
| S-6061 | Alkane Treatment Plant | N/A | N/A | | 25,300,000 | 70,560 | Gal | Data form G '95 |
| 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 | Abated Fixed Roof | N/A | 6500 gal | 36,000 (sum of S-6200 thru | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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 |
|---------------|---|-------------------|-------|----------|---------------------------------------|-------------------------|--------------------------------------|---|
| | Storage Container | | | | S-6219) | | (calendar year) | 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 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-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 | Abated Fixed Roof | N/A | 6500 gal | 36,000 (sum of S-6200 thru | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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 |
|---------------|---|-------------------|-------|----------|---------------------------------------|-------------------------|--------------------------------------|---|
| | Storage Container | | | | S-6219) | | (calendar year) | 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 |
| 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 | Abated Fixed Roof | N/A | 6500 gal | 36,000 (sum of S-6200 thru | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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 |
|---------------|---|-------------------|-------|----------|--|-------------------------|--------------------------------------|---|
| | Storage Container | | | | S-6219) | | (calendar year) | 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 |
| 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 | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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-6239) | | (calendar year) | 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 |
| 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 | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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-6239) | | (calendar year) | 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 |
| 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 | N/A | bbl non-exempt stock | Conditioned annual |

II. Equipment

Table II A 1 - Permitted Sources (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-6239) | | (calendar year) | 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 |

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-0025 | Tank | Fixed Roof | N/A | 336 gal | 2,520 | N/A | gal | P/C# 15107 |
| S-0399 | Tank | External Floating Roof | N/A | 4368K gal | 3,500,000 | N/A | bbl | Form T application #3061 |
| S-0605 | Tank | Abated Fixed Roof | N/A | 1131 gal | 84.1 (Sum of S-0605 and S-6066) | N/A | 1,000,000 gal | Conditioned annual throughput, P/C #11193. Stated limit is the sum of S-605 & S-6066 |
| S-0660 | Tank | Abated Fixed Roof | N/A | 252 gal | N/A, limited by S-0605 and S-6066 | N/A, limited by S-0605 and S-6066 | 1,000,000 gal | No limit. Limited by source #6061 |

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-0870 | Tank | Fixed Roof | N/A | 2300 gal | 4,500 | N/A | bbl non-exempt stocks | condition #11208 |
| 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-1645 | Tank | Internal Floating Roof | N/A | 105K gal | 73,000 | N/A | bbl | '77 data form T throughput verified acceptable in app. 14939 in '95 |
| S-1726 | Tank | Abated Fixed Roof | N/A | 18700 gal | 100,000 | N/A | gal | Form T App. #4554 |
| S-1727 | Tank | Abated Fixed Roof | N/A | 18700 gal | 100,000 | N/A | gal | Form T App. #4554 |
| S-1757 | Tank | Abated Fixed Roof | N/A | 18700 gal | 100,000 | N/A | gal | Application #4554 |
| S-1758 | Tank | Abated Fixed Roof | N/A | 18700 gal | 100,000 | N/A | gal | Application #4554 |
| 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, |

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 |
|-------------------|-----------------|-----------------------------------|----------------|-------------------------------|--------------------------|-------------------------|---------------------------------|---|
| | | | | | | | | 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 | 8400K 8625.51K gal | 5,914,000 | N/A | bbl | Form T '82 design drawings submitted 1/164 |
| S-3100 | Tank | External Floating Roof | N/A | 19910K gal | 8,303,000 | N/A | bbl non-exempt stock | App.#2447 emissions calculation & data form T '89 |
| 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-3106 | Tank | External Floating Roof | N/A | 29MM gal | 30,000,000 | N/A | bbl non-exempt stock | Condition #11025 |
| 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-3127 | Tank | External Floating Roof | N/A | 1865 1992.86 Kgal | 223,000 | N/A | bbl | App.# 6851 P/C #20361 design drawings submitted 1/164 |
| S-3141 | Tank | Abated Fixed Roof | N/A | | 216,330 | N/A | long tons | App.'s 10721 & 32587, '93 & '88 |

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-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 | 6300K 6807.87K gal | 11,000,000 | N/A | bbl | 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 | Condiiton #17553 |
| S-4042 | #5 Rheniformer F-550 | Foster Wheeler | N/A | | 1,734,480 | 4,752 | million Btu HHV | Conditioned daily throughput P/C# 18172 |
| S-4043 | F-560, #5 Rheniformer | Foster Wheeler | N/A | | 1,130,040 | 3,192 | million Btu HHV | Conditioned daily throughput P/C# 18172 |
| S-4045 | #5 Rheniformer F-580 | Foster Wheeler | N/A | | 446,760 | 1,224 | million Btu HHV | Conditioned daily throughput P/C# 18172 |
| S-4061 | #5 Naph Hydrotreater F-410 | Born Engineering Co. | N/A | | 989,880 | 2,928 | million Btu HHV | Conditioned daily throughput, P/C# 18166 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, P/C# 18166 annual limit proposed in Aug 16, 2001 firing rate limit update. |

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-4068 | VGO Desulfurizer F-1610 | Petro-Chem | N/A | | 1,116,900 | 3,060 | million Btu HHV | Conditioned daily throughput P/C# 18350 |
| S-4076 | 3 Cat Cooling Tower E-460 | Fluor Prod Co | N/A | | | | million gal | |
| S-4129 | 800# Steam Boiler #1 #1PP | Riley Stoker Corp. | N/A | | 2,041,080 | 5,592 | million Btu HHV | Conditioned daily throughput P/C# 16650 |
| S-4131 | Steam Boiler #3 #1PP | Riley Stoker Corp. | N/A | | 2,067,360 | 5,664 | million Btu HHV | Conditioned daily throughput P/C# 16650 |
| S-4132 | Steam Boiler #4 #1PP | Riley Stoker Corp. | N/A | | 2,058,600 | 5,640 | million Btu HHV | Conditioned daily throughput P/C# 17675 |
| 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/C# 17675 |
| 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-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-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-4158 | F-340 Natural Gas Heater, H2 Plant | Born Engineering Co. | N/A | | 366,168 | 1,152 | million Btu HHV | Implied condition application #553. |

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 |
|---------------|--------------------------------------|------------------------|-------|----------|--------------------------|-------------------------|-----------------|--|
| | | | | | | | | Conditioned daily limit, condition #17631 |
| S-4167 | F-710 TKC Fractionator Isomax | Born Engineering Co. | N/A | | 1,007,400 | 3,480 | million Btu HHV | Conditioned daily throughput P/C# 16731 |
| S-4170 | F-305 H2 Reforming Furnace, H2 Plant | Foster Wheeler | N/A | | | 20,328 | million Btu HHV | Conditioned daily throughput limit P/C# 16686 & 12.5 |
| S-4172 | Isomax Cooling Tower E-261 | Fluor Cooling Tower | N/A | | | | million gal | |
| S-4173 | FCC Cooling Tower E-710 | 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-4229 | SRU #3 Train | Contractor | N/A | | 106,835.5 | 336 | long tons | Condition #19063 |
| S-4237 | No. 5 Rheniformer | Bechtel | N/A | | 10,494,352,000 | 31,000 | bbl feed | 6 months x2, based on a maximum of 3 regens/yr/A/N 6014 RLOP |
| S-4251 | Solvent Deasphalting (SDA) Plant | M.W. Kellog | N/A | | 24,090,000 | 66,000 | bbl | App.#9163 |
| S-4292 | FCC Polymer Plant | Socal/Warner Lewis | N/A | | 2,920,000 | 8000 | bbl feed | Application #7948 pending |
| S-4360 | Perc Storage Tank, V1513 | N/A | N/A | | 9400 | N/A | gal | Condition #C-18337 & 12.17 |
| S-4393 | Bio-Reactor | | N/A | | 7140 | 62.5 | million gal | See Appendix 10.2, data form '81 |

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-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 | 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-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 | | 1,825 | 5.0 | million SCF H2S produced | Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945 |
| 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. |

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-6051 | MTBE Plant Cooling Tower | N/A | N/A | | 12,351.6 | 33.84 | million gal | Implied per application #16822 |
| S-6054 | #2 Dewax Plant Cooling Water Tower | N/A | N/A | | 1,310 | 3.6 | million gal | Per District data base |
| S-6055 | Wax Finishing Plant Cooling Water Tower (CWTS) | N/A | N/A | | 1,310 | 3.6 | million gal | Per District data base |
| S-6066 | Tank 6066: Process Water Tank <1000ppm (wt) Hydroc | Abated Fixed Roof | N/A | | 84.1 (sum of S-6065 and S-6066) | N/A | 1,000,000 gal | Conditioned annual throughput limit, P/C# 11193. Stated limit is sum of S-605 and S-6066. |
| 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-6250 | Oil Water Separator for Debru | N/A | N/A | | 115,500 | N/A | bbl | Appendix 9M-3 App.#25134 |
| 7501 | IC Engine | | | | 100 | | Hours | Condition 20225 |
| 7507 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7510 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7511 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7512 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7513 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7514 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7515 | IC Engine | | | | 720 | | Hours | Condition 20225 |

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 |
|---------------|---|--|-------|-----------|--------------------------|-------------------------|-------|-------------------------------------|
| 7516 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7517 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7518 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7520 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7521 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7522 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7523 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7524 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| 7525 | IC Engine | | | | 720 | | Hours | Condition 20225 |
| S-9302 | Tank T-302 in Lube/Chem Division | Fixed Roof | N/A | 12600 gal | 3,000,000 | N/A | bbl | Form T, Appendix 1B2 App.#30395 '84 |
| S-9303 | Tank T-303 in Lube/Chem Division | Fixed Roof | N/A | 12600 gal | 2,000,000 | N/A | bbl | Form T App.#30395 '84 |
| S-9304 | Non Retail Gasoline Dispensing Facility | 1 NOZ/EW A3003/A3005 Type, Condensate Trap Type: Simple Trap | N/A | | 107,623* | 294.9 | bbl | P/C# 710 |

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-0021 | 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 | bbl | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-0297 | Tank | External Floating Roof | N/A | 2528K gal | 5,475,000 | N/A | bbl | Data form |
| S-0298 | Tank | External Floating Roof | N/A | 2486K gal | 5,110,000 | N/A | bbl | Data form |
| S-0634 | Tank | External Floating Roof | N/A | 2499K gal | 1,900,000 | N/A | Bbl | Form T, Appendix 11.1 |
| S-0953 | Tank | External Floating Roof | N/A | 3717K gal | 3,337,346 | N/A | bbl | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-0954 | Tank | External Floating Roof | N/A | 2659K gal | 1,971,000 | N/A | bbl | 1977 data form T |
| S-0990 | Tank | External Floating Roof | N/A | 3738K gal | 4,264,814 | N/A | bbl | 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 | bbl | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-1287 | Tank | External Floating Roof | N/A | 2579K gal | 1,038,000 | N/A | bbl | 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 | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-1296 | Tank | External Floating Roof | N/A | 6733K gal | 4,015,000 | N/A | bbl | Form T '77, Appendix 11.1 & 12.1 |

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-1431 | 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 | Form T |
| S-1459 | Tank | External Floating Roof | N/A | 3163K gal | 1,524,966 | N/A | bbl | 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 | 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 | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-1514 | Tank | External Floating Roof | N/A | 4767K gal | 4,700,000 | N/A | bbl | Form T '79. Appendix 11.1 condition #21237 |
| 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 | Form T |
| S-1686 | Tank | External Floating Roof | N/A | 3238K gal | 15,330 | N/A | 1000 gal | Form T |
| S-1687 | Tank | External Floating Roof | N/A | 6329K gal | 6,552,546 | N/A | bbl | See Appendix 9T-4 highest 6 month throughput times 2 (H6Mx2) condition #21237 |
| S-1688 | Tank | External Floating Roof | N/A | 6052K gal | 5,059,000 | N/A | bbl | Implied permit condition from data form T '77 unable to locate app. #10313 |
| S-1843 | Tank | External Floating Roof | N/A | 476K 192.78 -K gal | 36,500 | N/A | bbl | Data form T '77 Check App. 9099? Design drawings submitted 1/16/4 |
| S-1966 | Tank | External Floating Roof | N/A | 1987K gal | 365,000 767,646 | N/A | bbl | Form T highest 6 months throughput x2 |

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-3071 | Tank | External Floating Roof | N/A | 7808K gal | 8,560,287 | N/A | bbl | See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2) |
| S-3072 | Tank | External Floating Roof | N/A | 6493K gal | 2,970,190 | N/A | bbl | highest 6 month throughput x2 condition #21237 |
| S-3073 | Tank | External Floating Roof | N/A | 4914K gal | 3,991,000 | N/A | bbl | Appendix 11.1 highest 6 month throughput times 2 (H6Mx2) |
| S-3101 | Tank | External Floating Roof | N/A | 19925K gal | 11,157,000 | N/A | bbl non-exempt stock | Monthly data showing 6 months times 2 = annual limit for tanks and crude unit 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 Floating Roof | N/A | 31MM gal | 29,455,000 | N/A | bbl non-exempt stock | Monthly data showing 6 months times 2 = annual limit for tanks and crude unit |
| S-3128 | Tank | External Floating Roof | N/A | 1865 1939.58 Kgal | 975,000 | N/A | bbl | 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 | 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 & 13.1 |
| S-4073 | LSFO Cooling Tower | Bechtel | N/A | | 13,666 | 37 | million gal | See appendix II (Roman) |
| S-4078 | WRR Cooling | Fluor | N/A | | 972 | 3.12 | million gal | Data form |

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 |
|---------------|--------------------------|--------------|---------------------------|----------|------------------------------------|-------------------------|----------|--|
| | Tower | Counterflo | | | | | | |
| S-9321 | Marine Loading Berth #1 | | 4 loading arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6 six months highest actual throughput limits put data times two |
| S-9322 | Marine Loading Berth #2 | | 18 gasoline/ gasohol arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6, six months highest actual throughput limits put data times two |
| S-9323 | Marine Loading Berth #3 | | 6 gasoline/ gasohol arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6, six months highest actual throughput limits put data times two |
| S-9324 | Marine Loading Berth #4 | | gasoline/ gasohol arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6, six months highest actual throughput limits put data times two |
| S-9325 | Marine Loading Berth #9 | | 15 gasoline/ gasohol arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6, six months highest actual throughput limits put data times two |
| S-9326 | Marine Loading Berth #11 | | 2 gasoline/ gasohol arms | | 146,628(sum of 9321 through 9326) | | 1000 bbl | See Appendix 11.6, six months highest actual throughput limits put data times two |

II. Equipment

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 (NH ₃) 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-4192 | 9-1-307, 1-520 | SO ₂ CEM | 250 ppmv SO ₂ , dry, at 0% oxygen |
| A-0021 | Tail Gas Unit for 2200 Plant, #2 SRU Train, Absorption and Regeneration | S-4228 S-4193 | 9-1-307, 1-520 | SO ₂ CEM | 250 ppmv SO ₂ , 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 | S-4229 S-4194 | 9-1-307, 1-520 | SO2 CEM | 250 ppmv SO2, dry, at 0% oxygen |
| A-0037 | Mist Eliminator Scrubber, Fibrous Packed Scrubber – Asphalt Loading Racks | S-4415 | Condition #1331 | | 10% maximum opacity |
| A-0043 | Sulfur Tanks and Loading Racks Vent Water Scrubber, Venturi Scrubber | S-3141 S-3140 S-4396 | | | |
| A-0053 | Packed Bed Inert Gas Wet Scrubber | S-4261 | | | |
| A-0054 | Wax Deoiler #2, Thermal Oxidizer, 10 MM Btu/hr TUH capacity, John Zink | S-4261 S-1726 S-1727 S-1757 S-1758 | 40 CFR 63 Part CC, Condition #16393, 8-1-110.3 | Continuous temperature monitor | Minimum temperature of 1400 degrees F NOx: 0.2 lb/MMBtu CO: 0.80 lb/MMBtu SOx: 0.027 lb/MMBtu PM: 0.01 lb/MMBtu >98% (by weight) emissions reduction |
| 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 |
| | | | 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 |

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-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 <10 ppm @15% O2 – 3-hr average; except startup/ shutdown |
| | | | 9-9-301.3, 9-9-501 | NOx CEM | 11.9 ppmv @15% O2 (dry) adjusted from 9 ppm NOx limit to 11.9 ppm NOx limit because of thermal efficiency (9-9-401) |
| | | | 9-9-301.3 | | 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 |
| 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% O2 – 3-hr average; except startup/ shutdown |
| | | | 9-9-301.3, 9-9-501 | NOx CEM | 11.9 ppmv ⁴ @15% O2 (dry) adjusted from 9 ppm NOx limit to 11.9 ppm NOx limit because of thermal efficiency (9-9-401) |
| | | | 9-9-301.3 | | 25 ppmv @15% O2 (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods |

II. Equipment

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|----------------------------------|---|--|--|
| | | | 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 NH3 |
| A-0094 | Thermofor Kiln Stack Burner (S-4094), Direct Flame Afterburner, Stack Burner | S-4094 S-4265 | 8-1-110.3 and condition 20791 | Minimum temperature and continuous temperature monitor and recorder | At least 90% destruction of organics |
| A-260 | Hydrogen A-Train SCR Unit (Furnace F-305), Unclassified Abatement Device | S-4170 | 9-10-301 | CEMs for both NOx and O2 | Refinery-wide emissions (excluding CO Boilers): 0.033 lbs NOx/MMBtu |
| 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 <80F, 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 <80F, 3-hr average vent flow <5Klb/hr, 3-hr average water flow >30 gal/min, water/vent flow ratio >11.6 |
| A-0414 | #2 Dewax and #2 Deoiler Thermatrix Model ES60H, Thermal Oxidizer | S-4261 S-4257 S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight, |
| A-0607 | Carbon Bed Feed Surge Tank Absorber Unit for S-0605 Tank (Alkane GWU) (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 |
| 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 |

II. Equipment

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|---|--|---|---|
| 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 |
| A-0620 | Thermatrix, Model ES60H, Thermal Oxidizer, LPG Racks | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0621 | Thermatrix, Model ES60H, Thermal Oxidizer, LPG Racks | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0622 | Thermatrix, Model ES60H, Thermal Oxidizer, Yard DIB | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor, Initial Source Test | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0623 | Thermatrix, Model ES60H, Thermal Oxidizer, 21 PS | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0624 | Thermatrix, Model ES60H, Thermal Oxidizer, 17 PS | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0625 | Thermatrix, Model ES60H, Thermal Oxidizer, 17 PS | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0627 | Thermatrix, Model ES60H, Thermal Oxidizer, FCC Unit (backup) | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight |
| A-0628 | Thermatrix, Model ES60H, Thermal Oxidizer, Alkylation Plant | Pumps and compressor seals S-32103 | Condition #8869 | Continuous temperature monitor | Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weigh, |

II. Equipment

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|---|--|--------------------------------|--|
| A-0630 | DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal | S-6250 | Condition #12842, 40 CFR 61 Subpart FF | | Outlet stream VOC concentration of A-630 <10% of inlet stream organics concentration, 95% reduction of organics, or <500 ppmv at outlet [applies to A630/A631] |
| A-0631 | DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal | S-6250 | Condition #12842, 40 CFR 61 Subpart FF | | Outlet stream VOC concentration of A-631 <10 ppmv methane, 95% reduction of organics, or <500 ppmv at outlet [applies to A630/A631] |
| A-0900 | Emission Reduction Device (Thermal Oxidizer) — Marine Vapor Recovery | S-9321 S-9322 S-9323 S-9324 S-9325 | Condition #4714, 8-44 | Continuous temperature monitor | 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 |
| | | | | | |
| | | | | | |
| 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-4241 | Mist Eliminator Scrubber, Fibrous Packed Scrubber — Asphalt Loading Racks (S-4241) | S-4240, S-4241 | <u>Regulation 6-301</u> | | 20% maximum opacity |
| A-4422 | Sandblaster Dust Collector, Shaking Baghouse for Abrasive Blasting at I&E Shop | | Condition #5599 | | |
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|--|------------------------|----------------------|---------------------------------------|
| A-6012 | Refinery Waste Gas Flare, V-282, South Isomax Flare -; Same as S-6012 | S-4250 S-4251 S-4348 S-4170 S-4171 S-4434 S-4429 | 8-1-110.3 | | At least 90% destruction of organics, |
| 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 |
| A-6015 | Refinery Waste Gas Flare D&R, 3MMBtu/h | S-4233, S-4234, S-4235, S-4237-4237 , S-4282, S-4283 S-4435 | 8-1-110.3 | | At least 90% destruction of organics |
| 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 |
| | | | | | |
| A-6017 | Alkane Flare, Refinery Waste Gas Flare, same as S-6017 | S-4286 S-4289 S-4290 S-4291 | 8-1-110.3 | | At least 90% destruction of organics |
| | | | 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 |
| A-6020 | K3950, Flare Gas Recovery Compressor System, Cooper/Penn. Unclassified Abatement Device | S-4233 S-4234 S-4236 S-4237 S-4233, S-4234, S-4235, S-4237, S-4282, S-4283 S-4435 | 8-18-110 | | 95% control efficiency or greater |
| | | | | | |
| A-6039 | V-3501; Lube RLOP Flare — Same as S-6039 | S-4340 S-4341 S-4342 S-4343 S-4344 S-4345 S-4346 S-4348 | 8-1-110.3 | | At least 90% destruction of Organics |
| A-6046 | Sandblaster Dust Collector, Simple Baghouse | S-6046 | | | |

II. Equipment

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| 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

Table II-B – Abatement Devices

| Abatement Device Number | Description | Sources(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------------|---|-----------------------|------------------------|----------------------|--|
| A-6238 | Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal | S-6238 | 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-6239 | Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal | S-6239 | 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

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 |
| 127 | T441?318 | TANK 127 | NA | NA | | Out of service |
| 131 | T441?419 | TANK 131 | NA | NA | | exempt Reg 2-1-123.3 |
| 151 | T441?419 | TANK 151 | NA | NA | | exempt Reg 2-1-123.3 |
| 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 2-1-123.3.10 API |
| 290 | T441?315 | TANK 290 | NA | NA | | exempt 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 2-1-123.3.10 API |
| 319 | T441?315 | TANK 319 | NA | NA | | exempt 2-1-123.3.3 DO |
| 325 | T441?419 | TANK 325 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 328 | T441?419 | TANK 328 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 329 | T441?392 | TANK 329 | NA | NA | | exempt 2-1-123.3.10 API |
| 397 | T441?318 | TANK 397 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 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 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 |
|---------------|-------------|---------------------------------------|-----------------------|----------------------|-------|--------------------------------------|
| 501 | T441?239 | TANK 501 | NA | NA | | exempt 2-1-123.3.10 API |
| 518 | T441?419 | TANK 518 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 526 | T441?419 | TANK 526 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 550 | T441?419 | TANK 550 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 551 | T441?419 | TANK 551 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 555 | T441?419 | TANK 555 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 583 | T441?318 | TANK 583 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 585 | T441?318 | TANK 585 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 586 | T441?318 | TANK 586 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 587 | T441?318 | TANK 587 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 588 | T441?318 | TANK 588 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 589 | T431?318 | TANK 589 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 590 | T431?432 | TANK 590 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 591 | T441?432 | TANK 591 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 592 | T441?432 | TANK 592 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 594 | T441?432 | TANK 594 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 595 | T441?432 | TANK 595 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 596 | T441?432 | TANK 596 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 597 | T441?432 | TANK 597 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 610 | T81??318 | Tank 610: Organic Liquid Storage Tank | NA | NA | | No limit. Limited by source no. 6061 |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|--|-----------------------|----------------------|-------|--------------------------------------|
| 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 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 2-1-123.3.2 IBP |
| 901 | T42??416 | Tank 901: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 902 | T42??419 | Tank 902: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 930 | T441?419 | TANK 930 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 931 | T441?419 | TANK 931 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 934 | T441?419 | TANK 934 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 935 | T441?419 | TANK 935 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 950 | T441?315 | TANK 950 | NA | NA | | ex 2-1-123.3.3 DO |
| 955 | T5412052 | TANK 955 | NA | NA | | exempt 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 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 2-1-123.3.3 Flash |
| 1149 | T441?239 | TANK 1149 | NA | NA | | exempt 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 |
|---------------|-------------|---------------------------------|-----------------------|----------------------|-------|-------------------------|
| 1292 | T5412158 | TANK 1292 | NA | NA | BBL | exempt 2-1-123.3.2 IBP |
| 1297 | T63?2502 | Tank 1297: Organic Storage Tank | NA | NA | | exempt 2-1-123.3.2 IBP |
| 1427 | T441?030 | TANK 1427 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1428 | T5412239 | TANK 1428 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1451 | T5412239 | TANK 1451 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1455 | T441?318 | TANK 1455 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1456 | T441?318 | TANK 1456 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1460 | T441?432 | TANK 1460 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1461 | T441?030 | TANK 1461 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1468 | T441?419 | TANK 1468 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 1470 | T441?432 | TANK 1470 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1491 | T5432179 | TANK 1491 | | | | |
| 1492 | T441?315 | TANK 1492 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1493 | T441?315 | TANK 1493 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1506 | T54?2315 | TANK 1506 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1507 | T44?392 | Tank 910 | NA | NA | | exempt 2-1-123.3.10 API |
| 1523 | T441?419 | TANK 1523 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1546 | T441?158 | TANK 1546 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1547 | T441?318 | TANK 1547 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1548 | T441?432 | TANK 1548 | NA | NA | | exempt 2-1-123.3.3 WAX |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|-------------------------------------|-----------------------|----------------------|-------|----------------------------|
| 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 2-1-123.3.3 Jet |
| 1636 | T441?315 | TANK 1636 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1679 | T43??318 | TANK 1679 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 1681 | T441?419 | TANK 1681 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1685 | T441?315 | TANK 1685 | NA | NA | | exempt 2-1-123.3.3 DO |
| 1707 | T441?318 | TANK 1707 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1708 | T441?318 | TANK 1708 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1709 | T441?432 | TANK 1709 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1710 | T441?318 | TANK 1710 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1711 | T441?432 | TANK 1711 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1712 | T441?432 | TANK 1712 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1716 | T441?432 | TANK 1716 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1723 | T441?432 | TANK 1723 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1724 | T441?432 | TANK 1724 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1725 | T441?432 | TANK 1725 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1728 | T431?432 | TANK 1728 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1729 | T431?432 | TANK 1729 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1730 | T431?318 | TANK 1730 | NA | NA | | exempt 2-1-123.3.3 WAX |

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Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|---|-----------------------|----------------------|-------|--------------------------|
| 1731 | T441?318 | TANK 1731 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1732 | T441?318 | TANK 1732 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1733 | T441?432 | TANK 1733 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1736 | T441?432 | TANK 1736 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1756 | T431?432 | TANK 1756 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1761 | T441?419 | TANK 1761 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1762 | T441?419 | TANK 1762 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1764 | T441?419 | TANK 1764 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1766 | T441?432 | TANK 1766 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1821 | G5999146 | Tank 1821 Fresh Sulfuric Acid Tank | NA | NA | | exempt 2-1-122 2.1 H2SO4 |
| 1825 | T42??201 | Tank 1825 | NA | NA | | exempt 2-1-123.3.2 IBP |
| 1828 | T344?052 | 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 2-1-123.3.3 DO |
| 1910 | T43??201 | Tank 1910 | NA | NA | | exempt 2-1-123.3.2 IBP |
| 1950 | T431?239 | TANK 1950 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1951 | T431?318 | TANK 1951 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1952 | T431?318 | TANK 1952 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 1989 | T441?419 | TANK 1989 | NA | NA | | exempt 2-1-123.3.3 Lube |
| 2520 | T44??106 | Wastewater/MEA Storage Tank | NA | NA | | exempt 2-1-123.2 AqSol |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|--|-----------------------|----------------------|-------|--|
| 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 2-1-123.3.3 Lube |
| 3008 | T441?432 | TANK 3008 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 3028 | T441?315 | TANK 3028 | NA | NA | | exempt 2-1-123.3.3 DO |
| 3029 | T44??315 | Tank 3029: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 DO |
| 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 2-1-123.3.3 WAX |
| 3074 | T54?2315 | TANK 3074 | NA | NA | BBL | exempt 2-1-123.3.3 DO |
| 3125 | T441?419 | TANK 3125 | NA | NA | | exempt 2-1-123.3.3 WAX |
| 3132 | T54?2315 | Tank 3132 | NA | NA | | exempt 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 2-1-123.3.3 DO |
| 3139 | T5422394 | TANK 3139 | NA | NA | | exempt 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 |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|--|-----------------------|----------------------|-------|-------------------------|
| 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 2-1-123.3.3 Lube |
| 3158 | T44??419 | Lube Oil Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3159 | T44??419 | Lube Oil Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3160 | T44??419 | Tank 3160: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3161 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3162 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3163 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3164 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3165 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3166 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3167 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3168 | T44??419 | Tank Lube Oil | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3169 | T44??419 | organic liquid storage tank, lube oil products | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3170 | T44??419 | Lube Oil Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3171 | T44??419 | Lube Oil Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3172 | T44??419 | Lube Oil Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 3179 | T44??315 | Tank 3179: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 DO |
| 3182 | T64??2419 | Tank 3182: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.10 API |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|---|-----------------------|----------------------|-------|---------------------------|
| 3186 | T44??201 | Gas Oil Tank | NA | NA | | exempt 2-1-123.3.3 DO |
| 3194 | T54?2394 | Storage Tank T-3194 | NA | NA | | exempt 2-1-123.3.10 API |
| 3195 | T54??315 | T-3195 Waxy Heavy Neutral Storage Tank | NA | NA | | exempt 2-1-123.3.3 DO |
| 3204 | T42??419 | Tank 3204: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.3 Lube |
| 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 2-1-123.3.2 IBP |
| 3216 | T44??315 | Tank 3216: Organic Liquid Storage Tank | NA | NA | | exempt 2-1-123.3.2 IBP |
| 3310 | T43??419 | Tank 3310: Organic Liquid Storage Tank | NA | NA | | exempt 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 2-1-123.3.3 |
| 4239 | T9812315 | MAIN TANK CAR LOADING RACKS #4239 | NA | NA | MBBL | ex 2-1-123.3.2 IBP |
| 4240 | T9811030 | ASPHALT TANK TRUCK LOADING RACK | NA | NA | NA | ex 2-1-123.3.2 IBP |
| 4241 | T9711030 | ASPHALT TANK CAR LOADING RACKS 4241 | NA | NA | NA | ex 2-1-123.3.2 IBP |
| 4285 | C573?080 | FCC Plant | | | | |
| 4315 | TB8?2041 | POINT ORIENT WHARF | NA | NA | NA | Abandoned. Out of service |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|--|-----------------------|----------------------|-------|---------------------------|
| 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 Vesel | NA | NA | BBL | 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 |
| 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 |

II. Equipment

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 |

II. Equipment

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 |

II. Equipment

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 |

II. Equipment

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 | | | | |
| 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 |
| 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 | NA | NA | | exempt 2-1-118.7 |
| 9324 | TB8??242 | Marine Loading Berth #4 | 146,628 (sum of 9321 through 9326) | 68 | M BBL | See Appendix 11.6 and 15.1 |
| 32100 | G9030000 | Fugitive Sources — Vacuum Producing Systems | NA | NA | | Exempt per PTO |

II. Equipment

Table II C – Exempt Equipment List

| Source Number | Source Code | Source Description | Proposed Annual Limit | Proposed Daily Limit | Units | Comments |
|---------------|-------------|--|-----------------------|----------------------|-------|----------------|
| 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 |

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.

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

- 63. ~~1.~~ BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 63. ~~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 language of SIP requirements is on EPA Region 9’s website. The address is included at the end of this permit.

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--|--|-----------------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/2/01) | 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 (8/1/01) | N |
| 2-1-429 | Federal Emissions Statement (6/7/95) | N |
| BAAQMD Regulation 2, Rule 2 | Permits, New Source Review (5/17/00) | N |
| SIP BAAQMD Regulation 2, Rule 3 | Permits, Power Plants (3/19/82) | Y |
| BAAQMD Regulation 2, Rule 4 | Permits, Emissions Banking (05/17/00) | Y |
| BAAQMD Regulation 2, Rule 6 | Major Facility Review (05/02/01) | Y |
| BAAQMD Regulation 2, Rule 9 | Permits, Interchangeable Emissions Reduction Credits (04/07/99) | N |
| BAAQMD Regulation 3 | Fees (6/5/02) | N |
| BAAQMD Regulation 4 | Air Pollution Episode Plan (3/20/91) | N |
| SIP Regulation 4 | Air Pollution Episode Plan (8/6/90) | Y |

III. ~~Generally~~ Generally Applicable Requirements

Table III – Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|----------------------------------|---|-----------------------------|
| BAAQMD Regulation 5 | Open Burning (3/6/02) | N |
| SIP Regulation 5 | Open Burning (9/4/98) | Y |
| BAAQMD 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 (6/15/94) | Y |
| SIP BAAQMD Regulation 8, Rule 3 | Organic Compounds, Architectural Coatings (2/18/98) | Y |
| BAAQMD Regulation 8, Rule 3 | Organic Compounds, Architectural Coatings (11/21/01) | N |
| SIP BAAQMD Regulation 8, Rule 4 | General Solvent and Surface Coating Operations (12/23/97) | Y |
| BAAQMD Regulation 8, Rule 4 | General Solvent and Surface Coating Operations (10/16/02) | N |
| BAAQMD Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (11/27/02) | N |
| SIP BAAQMD Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (12/15/99) | Y |
| BAAQMD Regulation 8, Rule 9 | Organic Compounds, Vacuum Producing Systems (07/20/83) | Y |
| BAAQMD Regulation 8, Rule 10 | Organic Compounds, Process Vessel Depressurization (7/20/83) | Y |
| 8-10-401 | Turnaround Records | Y |
| BAAQMD Regulation 8, Rule 18 | Organic Compounds, Equipment Leaks (1/7/98) | Y |
| BAAQMD Regulation 8, Rule 28 | Organic Compounds, Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98) | N |
| SIP BAAQMD Regulation 8, Rule 28 | Organic Compounds, Pressure Relief Valves at Petroleum Refineries and Chemical Plants (12/9/94) | Y |
| 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 10 | NSPS Incorporation by Reference, General Provisions (2/16/00) | N |

IIII. ~~Generally~~ Generally Applicable Requirements

Table III – Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|-----------------------------------|--|-----------------------------|
| BAAQMD Regulation 11, Rule 2 | Hazardous Pollutants, Asbestos Demolition/Renovation and Manufacturing (10/7/98) | N |
| BAAQMD Regulation 11, Rule 12 | NESHAP Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (1/5/94) | N |
| 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 |
| 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 |
| CAC Title 17 | State Provisions for Sandblasting | N |
| NESHAP Title 40 Part 61 Subpart M | NESHAP, Asbestos (11/20/90) | Y |
| Title 40 Part 68 | Chemical Accident Prevention Provisions (1/31/94) | Y |
| Title 40 Part 82 Subpart F | CFC Recycling and Emissions Reduction (5/14/93) | Y |
| 40 CFR 82 Subpart F 82.156 | Recycling and Emissions Reductions – Required Practices (8/8/95) | Y |
| 40 CFR 82 Subpart F 82.161 | Recycling and Emissions Reductions – Technician Certification (11/9/94) | Y |
| 40 CFR 82 Subpart F 82.166 | Recycling and Emissions Reductions – Reporting and Record Keeping Provisions (8/8/95) | Y |

~~IV. Source-specific Applicable Requirements~~

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

- 63. ~~1.~~—BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
- 63. ~~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 included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

**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 (5/2/01) | | |
| 1-107 | Commingle 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 (5/2/01; SIP approved 1/26/99 {adopted 11/1/89}) [Applicable if Subject to CEM Monitoring by permit condition (BACT)] | | |

IVH. Source-Specific ~~Generally~~ 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 |
|--|--|-----------------------------|--|
| 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}) [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 | 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 Operation | Y | |
| BAAQMD Regulation 9 Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/9/99 {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 (9/21/94) | | |
| 9-9-301 | Emission Limits – General | Y | Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (9/21/94) |
| 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 (1/5/94) | | |
| 9-10-110.3 | Exemption: Waste heat recovery boilers associated with gas turbines | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|--|---|-----------------------------|-----------------------|
| NSPS 40 CFR 60 Subpart GG | Standards of Performance for Stationary Gas Turbines (1/27/82) | | |
| 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 (b) | Fuel Sulfur and Nitrogen Content | 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) | | |
| 60.44b(a)(4) | Duct burner used in combined cycle system | Y | |
| 60.44b (e) | Standard for Nitrogen Oxides | Y | |
| 60.44b (h) | NOx Limit | Y | |
| 60.44b (I) | 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 | |
| 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-4353, 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|---|-----------------------------|-----------------------|
| 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 | |

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

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, 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, S-6039 V-3501 Flare

| 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 (10/2/90) | | |
| 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© | Y | |
| BAAQMD Regulation 6 | Particulate Matter and Visible Emissions (12/19/90) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

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

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, 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, S-6039 V-3501 Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| 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 8 | Organic Compounds, General Provisions (6/15/94) | | |
| 8-1-110.3 | Exemption from 8-1, if 90% of organic carbon is oxidized to carbon dioxide. | 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 |
| 40 CFR Part 60 Subpart A | General Provisions [applies to S-6015-6015 and S-6039 only] | | |
| 60.18 | General control device requirements | Y | |
| 40 CFR Part 60 Subpart J | Standards of Performance for Petroleum Refineries (7/1/00) [Subpart J does not apply to S-6010, S-6012, S-6013, S-6016, S-6017, and S-6019. Subpart J only applies to S-6015 and S-6039] [applies to S-6015 and S-6039 only] | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | Y | |

IVH. Source-Specific Generally-Applicable Requirements

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

Flares

S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, 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, S-6039 V-3501 Flare

| 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 (7/1/00) [does not apply to S-6015 and S-6039] | | |
| 60.104 | Standards for Sulfur Oxides- Compliance Schedule | Y | |
| 60.104(a)(1) | Exempt from fuel gas H2S limit if the flare is used only for upsets or emergency malfunctions | 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 | eligibility for exemption from the NSPS Subpart J standard for sulfur oxides, 40 CFR 60.104(a)(1), this flare shall only combust fuel that is released to the flare as a result of relief valve leakage, or other emergency malfunctions. These terms have the meanings defined in NSPS Subpart J. To ensure eligibility for exemption from the NSPS Subpart J standard for sulfur oxides, 40 CFR 60.104(a)(1), this flare shall only combust fuel that is released to the flare as a result of relief valve leakage, or other emergency malfunctions. These terms have the meanings defined in NSPS Subpart J. | Y | 12/1/046/1/046/1/04 |
| Part 1 | fuel gas limit in #/hr Flare inspection requirement | Y | 12/1/046/1/046/1/04 |
| Part 2 | Records of vent gas flared in #/hr Flow meter requirements | Y | 12/1/046/1/046/1/04 |
| Part 3 | Monitoring of Smoking Flares S-6015 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)) | Y | 12/1/046/1/046/1/04 |
| Part 4 | Procedures for inspecting smoking S-6015 records of every flaring event. (40 CFR 60.104 (a)(1)) | Y | 12/1/046/1/046/1/04 |
| Part 5 | Visual Inspection of smoking flares | Y | 12/1/046/1/04 |
| Part 6 | Records of flaring events | Y | 12/1/046/1/04 |
| Part 7 | S-6015 and S-6039 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)) | Y | 12/1/046/1/04 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**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-4093 F-11 Steam Heater Wax Filter Building, S-4094 Air Heater Kiln Thermofor Unit abated by A-0094 Afterburner, 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, S-4402 Salt Furnace

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (11/15/00) | | |
| 1-521 | Monitoring may be required | Y | |
| 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 | |
| Condition #469 | S-4093, S-4094, S-4107, S-4192, S-4193, S-4194, S-4402 [Refinery Cap] | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (11/15/00) | | |
| 1-520 | Continuous Emission Monitoring [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339] | N | |
| 1-520.1 | NOx CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072] | N | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339] | N | |
| 1-521 | Monitoring May Be required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | N | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures [all except S-4069, S-4156-S-4157] | 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) | | |
| 1-520 | Continuous Emission Monitoring [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339] | Y | |
| 1-520.1 | NOx CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072] | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339] | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| 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 | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures [all except S-4069, S-4156-S-4157] | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | Y | |
| BAAQMD Regulation 2 Rule 1 | Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; 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 [applies for S-4155, and S-4330-S-4339] | Y | |
| 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 | |
| BAAQMD Regulation 9 Rule 10 | Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94) | | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|---|
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lbs NOx/MMBTU | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.1 | Start-up/Shutdown Contribution | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.2 | Out-of-Service Units Contribution | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-502 | Monitoring | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | Y N | 7/1/02 [plant did reform. Fuels project] |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|---|
| 9-10-502.2 | Fuel flowmeters | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-504 | Recordkeeping | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-505 | Reporting | Y | 7/1/02 [plant did reform. Fuels project] |
| 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] | | |
| 60.42 | Standard for Particulate Matter | Y | |
| 60.42(a)(1) | 0.1 lb PM/MMBtu Limit for fossil fuel burned | Y | |
| 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 | |
| 60.44 | Standard for Nitrogen Oxides | Y | |
| 60.44(a)(1) | 0.2 lb NOx/MMBtu Limit for Gaseous fossil fuel burned | Y | |
| 60.45 | Emission and Fuel Monitoring | Y | |
| 60.45(a) | Install CEMS (including O2 CEM) | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| 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 | |
| 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 | |
| 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] | | |
| 60.44b | Standard for Nitrogen Oxides | Y | |
| 60.44b(e) | 0.1 lb NOx/MMBtu Limit for combusting natural gas with waste/byproduct (waste/byproduct definition includes refinery fuel gas) | Y | |
| 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 | |
| 60.46b | Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides | Y | |
| 60.46b(a) | The NOx standard applies at all times | Y | |
| 60.48b | Emission Monitoring for Particulate Matter and Nitrogen Oxides | Y | |
| 60.48b(b) | Install, calibrate, and operate a NOx CEM | Y | |
| 60.48b© | CEM operated and data recorded during all periods of operating except for CEM breakdowns and repairs. | Y | |
| 60.48b(d) | Use 1-hour average NOx CEM results to calculate lb NOx/MMBtu per 60.44b | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| 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 | |
| 60.48b(f) | Use standby system or Method 7 if NOx CEM downtime exceeds listed limits. | Y | |
| 60.49b | Reporting and Recordkeeping Requirements | Y | |
| 60.49b© | Alternate CEM with approval of agency | Y | |
| 60.49b(d) | Maintain fuel records each operating day | Y | |
| 60.49b(g) | Maintain records of listed information for each operating day. | Y | |
| 60.49b(i) | Submit reports containing information required in 60.49b(g) for NOx CEM. | Y | |
| 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 | |
| NSPS 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (7/1/00) [Only if installed after 6/11/1973 AND burning refinery-made fuel gas] | | |
| 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. [Effectiveness requirement for sulfur plant] | 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 | |

IVH. Source-Specific ~~Generally~~ 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

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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© | Y | |
| Condition # 8773 | Permit condition parts are listed below: | | |
| Condition #8773 | Permit condition parts are listed below: | | |
| 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 | |
| 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 | |
| Part 3 | O ₂ & NOx CEM required [applies to S-4155] | N | |
| Part 5 | Fuel gas H ₂ S shall not exceed 50 ppm [applies to S-4155] | Y | |
| Part 6 | Fuel use shall not exceed 209 MMBtu/Hr [applies to S-4155] | Y | |
| 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-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339] | Y | |
| Part 3B | Operate O ₂ CEM for each SCR [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339] | Y | |
| Part 4A | Maintain records (including fuel input rate) [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339] | Y | |
| Part 6A | Do not burn fuel oil [applies to S-4155, S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339] | Y | |
| Part 6B | NOx 8-hour average shall not exceed 40 ppm [applies to S-4330, S-4331, S- | Y | |

IVH. Source-Specific ~~Generally~~ 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

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| 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, S-4339, A0065, A0066, & A0067] | | |
| Condition #16686 | Max Firing Rate Limits [applies for S-4044, S-4070, S-4071, S-4072, S-4334, S-4335, S-4338, & S-4339] | N | |
| Condition #18003 | Permit condition parts are listed below: | | |
| Part 1 | Operate fuel gas meter [applies to S-4059 and S-4060] | Y | |
| Part 3 | Semiannual NOx, CO, & O2 source tests [applies to S-4059 and S-4060] | Y | |
| Part 4 | 2 additional source tests to maximize Co [applies to S-4059 and S-4060] | Y | |
| Part 5 | Source Test if outside NOx box [applies to S-4059 and S-4060] | Y | |
| Part 5a | Violation if source test > limit [applies to S-4059 and S-4060] | Y | |
| Part 5b | Adjust NOx box if source test < limit [applies to S-4059 and S-4060] | Y | |
| Part 6 | NOx limit of 0.03 lbs NOx/MMBtu [applies to S-4059 and S-4060] | N | |
| Part 7 | Maximum firing rate limit [applies to S-4059] | N | |
| Part 8 | Maximum firing rate limit [applies to S-4060] | N | |
| Part 9 | Install CO CEM if [applies to S-4059 and S-4060] | Y | |
| Part 10 | Daily records [applies to S-4059 and S-4060] | Y | |
| Condition #18015 | Permit condition parts are listed below: | | |
| Part 1 | CO Source test [applies to S-4070, S-4071, and S-4072] | Y | |
| Part 1a | Install CO CEM if [applies to S-4070, S-4071, and S-4072] | Y | |

IVH. Source-Specific ~~Generally~~ 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

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| Part 2 | Operate NOx and O2 CEMS and fuel flow meter[applies to S-4070, S-4071, and S-4072] | Y | |
| Part 3 | Maximum Firing Rate Limits [applies to S-4070, S-4071, and S-4072] | N | |
| Part 4 | Daily Records [applies to S-4070, S-4071, and S-4072] | Y | |
| Condition #17631 | Permit condition parts are listed below: | | |
| Part 1 | Fuel flow meter [applies to S-4158] | Y | |
| Part 3 | Semi-annual NOx, CO, & O2 source tests [applies to S-4158] | Y | |
| Part 4 | Additional source tests to maximize CO [applies to S-4158] | Y | |
| Part 5 | Source test if outside NOx box [applies to S-4158] | Y | |
| Part 5a | Violation if source test > limit [applies to S-4158] | Y | |
| Part 5b | Adjust NOx box if source test > limit [applies to S-4158] | Y | |
| Part 6 | NOx limit of 0.035 lbs NOx/MMBtu [applies to S-4158] | N | |
| Part 7 | 48 MMBtu/Hr firing rate limit [applies to S-4158] | N | |
| Part 8 | Install CO & O2 CEM [applies to S-4158] | Y | |
| Part 9 | Daily records [applies to S-4158] | Y | |
| Condition #18172 | Permit condition parts are listed below: | | |
| Part 1 | CO Source Tests [applies to S-4042, S-4043, S-4044, and S-4045] | Y | |
| Part 1a | Install CO CEM if [applies to S-4042, S-4043, S-4044, and S-4045] | Y | |
| Part 2 | Operate fuel flowmeter, NOx & O2 CEMS [applies to S-4042, S-4043, S- | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | 4044, and S-4045] | | |
| Part 3 | Maximum firing rates [applies to S-4042, S-4043, S-4044, and S-4045] | Y | |
| Part 4 | Maintain daily records [applies to S-4042, S-4043, S-4044, and S-4045] | Y | |
| Condition #18166 | Permit condition parts are listed below: | | |
| Part 1 | CO Source Tests [applies to S-4061 and S-4062] | Y | |
| Part 1a | Install CO CEM if > limit [applies to S-4061 and S-4062] | Y | |
| Part 2 | Operate NOx, O2 CEMs & fuel meter [applies to S-4061 and S-4062] | Y | |
| Part 3 | Maximum firing rate [applies to S-4061 and S-4062] | N | |
| Part 4 | Maintain daily records [applies to S-4061 and S-4062] | Y | |
| Condition #18350 | Permit condition parts are listed below: | | |
| Part 1 | Fuel gas flow meter [applies to S-4068] | Y | |
| Part 3 | NOx, CO, O2 source tests [applies to S-4068] | Y | |
| Part 4 | Additional source tests [applies to S-4068] | Y | |
| Part 5 | Source test outside box [applies to S-4068] | Y | |
| Part 6 | 0.14 lb NOx/MMBtu limit [applies to S-4068] | N | |
| Part 7 | 127.5 MMBtu/Hr Limit [applies to S-4068] | N | |
| Part 8 | CO and O2 CEMs [applies to S-4068] | Y | |
| Part 9 | Daily fuel use records [applies to S-4068] | Y | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Condition #19586 | Permit condition parts are listed below: | | |
| Part 1 | Semi-annual NOx source tests [applies to S-4069, S-4156] | Y | |
| Part 2 | Annual Annual NOx source test [applies to S-4189] | Y | |
| Part 3 | Semi-annual CO source tests [applies to S-4069, S-4155, S-4156, S-4332 to S-4335, S-4337, S-4338] | Y | |
| Part 4 | Annual CO source test [applies to S-4330, S-4331, S-4336, S-4339] | Y | |
| Part 5 | Semi-annual CO source test for compliance [applies to S-4155] | Y | |
| Condition #21232 | New NOx Box Conditions [effective 126/1/04] | N | 126/1/04 |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | |
| 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 CEM (basis: Regulation 9-10-502) | N | |
| Part 4 | NOx box establishment requirements (basis: Regulation 9-10-502) | N | |
| Part 5 | NOx box ranges (basis: Regulation 9-10-502) | N | |
| Part 6 | NOx Box Deviations (basis: Regulation 9-10-502) | N | |
| Part 7 | Source test requirements (basis: Regulation 9-10- | N | |

IVH. Source-Specific ~~Generally~~ 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

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-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-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-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | 502) | | |
| Part 8 | CO source test (basis: Regulation 9-10-502, 1-522) | N | |
| Part 9 | CO results requires CEM (basis: Regulation 9-10-502, 1-522) | N | |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (11/15/00) | | |
| 1-520 | Continuous Emission Monitoring [applies to S-4038-S-4041, S-4164-S-4166, S-4168-S-4171] | Y | |
| 1-520.1 | NOx CEM required for Steam Generators with Heat Input Rated > 250 MMBtu/Hr [applies to S-4070, S-4071, S-4072, S-4169, S-4170, and S-4171] | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 [applies to S-4038-S-4041, S-4164-S-4166, S-4168-S-4171] | Y | |
| 1-521 | Monitoring may be required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | N | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures [applies to S-4038-S-4041, S-4152, S-4154, S-4159, S-4160, S-4164-S-4171] | 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) | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures [applies to S-4038-S-4041, S-4152, S-4154, S-4159, S-4160, S-4164-S-4171] | Y | |
| BAAQMD Regulation 2 Rule 1 | Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| 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 (1/26/99 {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 | Y | |
| 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 | |
| BAAQMD Regulation 9 Rule 10 | Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94) | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lbs NOx/MMBTU [applies for all sources listed in this table except S-4032 and S-4033] | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.1 | Start-up/Shutdown Contribution [applies for all sources listed in this table except S-4032 and S-4033] | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.2 | Out-of-Service Units Contribution [applies for all sources listed in this table except S-4032 and S-4033] | N | 7/1/02 [plant did reform. Fuels project] |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|---|
| 9-10-305 | CO Emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | Y N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-502.2 | Fuel flowmeters | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-504 | Recordkeeping | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-505 | Reporting | Y | 7/1/02 [plant did reform. Fuels project] |
| Condition #469 | RLOP CAP, Monthly CME | Y | |
| Condition #469 | S-4038-S-4041, S-4095, S-4152, S-4154, S-4159-S-4171, S-4188, S-4189 [Refinery Cap] | Y | |
| Condition #469 | Permit condition parts are listed below: | | |
| Part 12 | 47 MMBtu/Hr Fuel Use Limit [applies to S-4159] | Y | |
| Part 13 | 45 MMBtu/Hr Fuel Use Limit [applies to S-4160] | Y | |
| Part 14 | Record fuel gas use monthly [applies to S-4159 and S-4160] | Y | |
| Condition | Permit condition parts are listed below: | | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| #16679 | | | |
| Part 1 | 120 lb NH3/hr limit [applies for S-4170] | N | |
| 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 | |
| Part 4 | NOx & O2 CEMS [applies for S-4170] | Y | |
| Part 5 | Startup & shutdown time limits [applies for S-4170] | Y | |
| Part 5a | Metallurgical & other extension [applies for S-4170] | Y | |
| Part 5b | Refractory work extension [applies for S-4170] | Y | |
| Part 5c | Catalyst extension [applies for S-4170] | Y | |
| Part 6 | Recordkeeping [applies for S-4170] | Y | |
| Condition #16686 | | | |
| Part 1 | Firing Limits [applies for S-4152, S-4154, S-4159 to S-4163, S-4168, S-4170, S-4172] | Y | |
| Condition #16698 | Permit condition parts are listed below: | | |
| Part 1 | Source Tests [applies to S-4038, S-4039, S-4040 and S-4041] | Y | |
| Part 1a | Install CO CEM if [applies to S-4038, S-4039, S-4040, and S-4041] | Y | |
| Part 2 | Firing rate limits [applies to S-4038, S-4039, S-4040, and S-4041] | N | |
| Part 3 | NOx Limits [applies to S-4038, S-4039, S-4040, and S-4041] | Y | |
| Part 4 | Fuel flow meter [applies to S-4038, S-4039, S-4040, and S-4041] | Y | |
| Part 5 | Recordkeeping [applies to S-4038, S-4039, S-4040 and S-4041] | Y | |
| Condition #16731 | Permit condition parts are listed below: | | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| Part 1 | CO source tests [applies to S-4164, S-4165, S-4166, S-4168, and S-4169] | Y | |
| Part 1a | Install CO CEM if [applies to S-4164, S-4165, S-4166, S-4168, and S-4169] | Y | |
| Part 2 | NOx & O2 CEMS [applies to S-4164, S-4165, S-4166, S-4168, and S-4169] | Y | |
| Part 3 | Maximum firing rates [applies to S-4164, S-4165, S-4166, S-4168, and S-4169] | N | |
| Part 4 | Recordkeeping [applies to S-4164, S-4165, S-4166, S-4168, and S-4169] | Y | |
| Condition #17310 | Permit condition parts are listed below: Applies to S-4152 and S-4154 | | |
| Part 1 | Fuel gas flowmeter and recorder | Y | |
| Part 2 | Max fairing rate for S-4152, 50.5 MMBtuh | N | |
| Part 3 | Max fairing rate for S-4154, 50.5 MMBtuh | N | |
| Part 4 | Records of fuel usage and HHV | Y | |
| Condition #17628 | Permit condition parts are listed below: | | |
| Part 1 | Fuel gas flow meter [applies to S-4152 and S-4154] | Y | |
| Part 3 | Semi-annual NOx, CO & O2 source tests [applies to S-4152 and S-4154] | Y | |
| Part 4 | Additional sources tests to maximize CO [applies to S-4152 and S-4154] | Y | |
| Part 5 | Source test if outside NOx box [applies to S-4152 and S-4154] | Y | |
| Part 5a | Violation if source test > limit [applies to S-4152 and S-4154] | Y | |
| Part 5b | Adjust NOx box if source test > limit [applies to S-4152 and S-4154] | Y | |
| Part 6 | NOx limit of 0.035 lbs NOx/MMBtu [applies to S-4152] | N | |
| Part 7 | NOx limit of 0.035 lbs NOx/MMBtu [applies to S-4154] | N | |
| Part 8 | Maximum Firing Rate Limit [applies to S-4152] | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|---|-----------------------------|-----------------------|
| Part 9 | Maximum Firing Rate Limit [applies to S-4154] | N | |
| Part 10 | Install CO & O2 CEMs if [applies to S-4152 and S-4154] | Y | |
| Part 11 | Daily Records [applies to S-4152 and S-4154] | Y | |
| Condition #17973 | Permit condition parts are listed below: | | |
| Part 1 | CO source test | N | |
| Part 2 | Operate NOx and O2 CEMs and fuel flowmeter [applies for S-4171] | N | |
| Part 3 | Maximum firing rate [applies for S-4171] | N | |
| Part 4 | Daily records [applies for S-4171] | Y | |
| Condition #18387 | Permit condition parts are listed below: | | |
| Part 1 | Fuel gas flowmeter [applies to S-4159 and S-4160] | Y | |
| Part 3 | NOx, CO, and O2 source tests [applies to S-4159 and S-4160] | Y | |
| Part 4 | Additional source tests [applies to S-4159 and S-4160] | Y | |
| Part 5 | Source test outside box [applies to S-4159 and S-4160] | Y | |
| Part 6 | 0.033 lb NOx/MMBtu [applies to S-4159 and S-4160] | N | |
| Part 7 | 68 MMBtu/Hr [applies to S-4159] | N | |
| Part 8 | 71 MMBtu/Hr [applies to S-4160] | N | |
| Part 9 | CO & O2 CEM if [applies to S-4159 and S-4160] | Y | |
| Part 10 | Daily Records[applies to S-4159 and S-4160] | Y | |
| Condition #18391 | Permit condition parts are listed below: | | |
| Part 1 | Fuel gas flowmeter [applies S-4167] | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|---|-----------------------------|-----------------------|
| Part 3 | NOx, CO, O2 source tests [applies to S-4167] | Y | |
| Part 4 | Additional source tests [applies to S-4167] | Y | |
| Part 5 | Source test outside of box [applies to S-4167] | Y | |
| Part 6 | 0.035 lb NOx/MMBtu limit [applies to S-4167] | N | |
| Part 7 | 145 MMBtu/Hr limit [applies to S-4167] | Y | |
| Part 8 | CO & O2 CEM if [applies to S-4167] | N | |
| Part 9 | Daily fuel use records | N | |
| Condition #18400 | Permit condition parts are listed below: | | |
| Part 1 | Fuel gas flowmeters [applies to S-4188 and S-4189] | Y | |
| Part 2 | 648 MMBtu/Day limit [applies to S-4188] | Y | |
| Part 3 | 360 MMBtu/Day limit [applies to S-4189] | Y | |
| Part 6 | Daily Records [applies to S-4188 and S-4189] | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| Condition #19586 | Permit condition parts are listed below: | | |
| Part 1 | Semi-annual NOx source tests [applies to S-4032, S-4033, S-4095, S-4153, S-4161, S-4162, S-4163, S-4188] | Y | |
| Part 2 | Annual NOx source test [applies to S-4189] | Y | |
| Part 3 | Semi-annual CO source tests [applies to S-4032, S-4033, S-4095, S-4153, S-4161, S-4162, S-4163, S-4188] | Y | |
| Part 4 | Annual CO source test [applies to S-4189] | Y | |
| Condition #21232 | New NOx Box Conditions [effective 6/1/04] | N | 126/1/04 |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | |
| 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 CEM (basis: Regulation 9-10-502) | N | |
| Part 4 | NOx box establishment requirements (basis: Regulation 9-10-502) | N | |
| Part 5 | NOx box ranges (basis: Regulation 9-10-502) | N | |
| Part 6 | NOx Box Deviations (basis: Regulation 9-10-502) | N | |
| Part 7 | Source test requirements (basis: Regulation 9-10-502) | N | |
| Part 8 | CO source test (basis: Regulation 9-10-502, 1-522) | N | |
| Part 9 | CO results requires CEM (basis: Regulation 9-10- | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.3.3 Combustion
 Source-specific Applicable Requirements**

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

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-4046 F-1 H.O. Heater-Asphalt Plant, S-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | 502, 1-522) | | |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | |

**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 |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (11/15/00) | | |
| 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) | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 2 Rule 1 | Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; 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 | 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 (7/1/00) | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H ₂ S 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 H ₂ S (dry basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3) | Excess SO ₂ emission definitions for 60.7© | Y | |
| 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 | 30 ppmv NO _x 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-4118 P15 FIRE WATER PUMP, S-4119 P16 FIRE WATER PUMP, S-4126 P10 FIRE WATER PUMP, S-4127 #1PP ELECTRICAL GENERATOR, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 | Particulate Matter and Visible Emissions (12/19/90) | | |
| 6-303 | Ringelmann No. 2 Limitation | 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 5/20/92) | | |
| 9-1-301 | Limitations on Ground Level Concentrations | Y | |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Y | |
| BAAQMD Regulation 9 Rule 8 | Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93) | | |
| 9-8-110.1 | Exemptions: <250 bhp | Y | |
| Condition # 20225 | Applies to S-7501, S-7507 IC Engine, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and 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 | Hours of Operation Limit (applies to S-7507 IC Engine, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only) | N | |
| Part 5 | Hour or Fuel Meter Requirement (applies to S-7507 IC Engine, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only) | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.A.4.1 Combustion
 Source-specific Applicable Requirements**

Internal Combustion Engines

S-4118 P15 FIRE WATER PUMP, S-4119 P16 FIRE WATER PUMP, S-4126 P10 FIRE WATER PUMP, S-4127 #1PP ELECTRICAL GENERATOR, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 6 | Records (applies to S-7507 IC Engine, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only) | N | |

**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 (11/15/00) | | |
| 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 (5/2/01; 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|-----------------------------|---|-----------------------------|---|
| 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}) [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 | 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 | |
| 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) | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lbs NOx/MMBTU | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.1 | Start-up/Shutdown Contribution | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.2 | Out-of-Service Units Contribution | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-301.3 | Test-firing on Non-gaseous fuel Contribution | N | 7/1/02 [if plant did reform. Fuels project] |
| 9-10-303 | Emission Limit for Facility (Federal Requirements) | Y | [Not applicable for CO boilers] |
| 9-10-305 | CO emission limit | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-403 | Clean-Fuel Extension Compliance Date | N | 7/1/02 [plant did reform. Fuels project] |

IVH. Source-Specific ~~Generally~~ 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 |
|-------------------------|--|-----------------------------|---|
| | | | project] |
| 9-10-502 | Monitoring | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | Y N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-502.2 | Fuel flowmeters | Y | 7/1/02 [plant did reform. Fuels project] |
| 9-10-504 | Recordkeeping | N | 7/1/02 [plant did reform. Fuels project] |
| 9-10-505 | Reporting | N | 7/1/02 [plant did reform. Fuels project] |
| Condition #469 | RLOP CAP, monthly CME | Y | |
| Condition #16650 | Permit condition parts are listed below: | | |
| Part 1 | Operate NOx, O2, fuel rate meters [applies to S-4129, S-4131] | N | |
| Part 2 | Max firing rate [applies to S-4129] | Y | |
| Part 3 | Max firing rate [applies to S-4131] | Y | |
| Part 4 | Daily Records for 5 years of CEM data, NOx mass emissions, fuel use & heat content [applies to S-4129, S-4131] | Y | |
| Part 5 | CO source test and CEM if failed (applies to S04129, S-4131) | Y | |
| Condition #16686 | | | |
| Part 1 | Firing Limits [applies for S-4131, S-4132, S-4133] | Y | |
| Condition #17675 | Permit condition parts are listed below: | | |
| Part 1 | Operate NOx, O2, fuel gas meters [applies to S-4132, S-4135] | Y | |

IVH. Source-Specific ~~Generally~~ 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 2 | Semi-annual CO Source Tests (applies to S-4132, S-4135) | Y | |
| Part 3 | Max Fuel firing rate limit (applies to S-4132) | N | |
| Part 4 | Max Fuel firing rate limit (applies to S-4135) | N | |
| Part 5 | Maintain daily records (applies to S-4132, S-4135) | Y | |
| Condition #18029 | Permit condition parts are listed below: | | |
| Part 1 | Semi-annual CO Source Tests (applies to S-4133) | Y | |
| Part 2 | Operate NOx and O2 CEMs and fuel flow meter (applies to S-4133) | Y | |
| Part 3 | Maintain daily records (applies to S-4133) | Y | |
| Condition #21232 | New NOx Box Conditions [effective 6/1/04] | N | 126/1/04 |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | |
| 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 CEM (basis: Regulation 9-10-502) | N | |
| Part 4 | NOx box establishment requirements (basis: Regulation 9-10-502) | N | |
| Part 5 | NOx box ranges (basis: Regulation 9-10-502) | N | |
| Part 6 | NOx Box Deviations (basis: Regulation 9-10-502) | N | |
| Part 7 | Source test requirements (basis: Regulation 9-10-502) | N | |
| Part 8 | CO source test (basis: Regulation 9-10-502, 1-522) | N | |
| Part 9 | CO results requires CEM (basis: Regulation 9-10-502, 1-522) | N | |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 8 Rule 15 | Organic Compounds, Emulsified and Liquid Asphalts (9/16/87) | | |
| 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 | |

**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 |
|------------------------|--|-----------------------------|-----------------------|
|------------------------|--|-----------------------------|-----------------------|

IVH. Source-Specific ~~Generally~~ 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 |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 7 | Organic Compounds – Gasoline Dispensing Facilities (11/17/99) | | |
| 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 | |
| 8-7-302 | 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 | |
| 8-7-302.12 | Liquid Retainment Limit | Y | |
| 8-7-302.13 | Spitting Limit | Y | |
| 8-7-303 | Topping Off | Y | |
| 8-7-304 | Certification Requirements | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|---------------------------------|---|-----------------------------|-----------------------|
| 8-7-306 | 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 | |
| 8-7-501 | 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 | |
| Condition #710 | Flow Limiter Requirement – Limit flowrate to 8.0 to 8.6 gal/min | N | |
| Condition #711 | Vapor Flow Rate – not to exceed 17.2 gal/min | N | |
| Condition #712 | Magnahelic Pressure Gauge Requirement | N | |
| CARB State Exec. Order G-70-138 | Applies to S-9304 | N | |

**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 |
|------------------------|--|-----------------------------|-----------------------|
|------------------------|--|-----------------------------|-----------------------|

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**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 | | |

**Table IV.B.4.1 Loading Terminals
 Source-specific Applicable Requirements**

Wax

S-4239 Main Tank Car Loading Rack

| 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) | Y | |
| 8-6-301 | CARB Certification and VOC limit 21g/cubic meter | Y | |
| 8-6-302.1 | CARB Certification and VOC limit 44 g/cubmic 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 44 | Organic Compounds-Marine Vessel Loading Terminals (1/4/89) | | |
| 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 | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|---|-----------------------------|-----------------------|
| 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 | |

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #3 Cat, S-4078 WRR, 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 MTBE/ALTA, S-6054 #2 Wax Deoiler, S-6055 Wax Finishing Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| 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 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 8 Rule 2 | Organic Compounds, Miscellaneous Operations (3/17/82) | | |
| Condition #14596 | Permit condition parts are listed below: | | |
| Part 1 | Organic compound emissions from S-6051 shall not exceed 23.7 lb/day, averaged over any consecutive 30-day period. | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.C.1.1 Process Units
 Source-specific Applicable Requirements**

Cooling Water Towers

S-4073 LSFO, S-4076 #3 Cat, S-4078 WRR, 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 MTBE/ALTA, S-6054 #2 Wax Deoiler, S-6055 Wax Finishing Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| 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 | |
| Condition #10597 | Permit condition parts are listed below: | | |
| Part 1 | Hydrocarbon emissions from S-6054 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period. | Y | |
| Part 2 | Total dissolved solids at the S-6054 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30 day period | Y | |
| Condition #10598 | Permit condition parts are listed below: | | |
| Part 1 | Hydrocarbon emissions from S-6055 shall not exceed 2.5 lbs/day, averaged over any 30 day consecutive period | Y | |
| Part 2 | Total dissolved solids at the S-6055 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30 day period | Y | |

**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 (5/02/01) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|-----------------------------------|--|-----------------------------|-----------------------|
| 1-522.1 | 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 | |
| 1-522.10 | Monitors | Y | |
| SIP BAAQMD Regulation 1 | General Provisions and Definitions (10/7/98) | 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 | Particulate Matter and Visible Emissions (12/19/90) | | |
| 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 | |
| 6-502 | Data, Records and Reporting (where opacity monitor is required by the District) | Y | |
| BAAQMD Regulation 9 Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 | Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) | Y | |
| 9-1-313.1 | Crude oil sulfur content does not exceed 0.10 percent by weight, or | 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 | |
| 9-1-502 | Emission Monitoring Requirements (Regulations 1-520, 1-522) | Y | |
| SIP Regulation 9 Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92) [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 | |
| 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (8/17/89) | 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 | |
| 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© | 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 © | Recording requirement for coke burn-off rate | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------------|--|-----------------------------|--|
| 60.105 (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(l)(12) | Alternative Method for Determining Compliance | | |
| 60.107 | Reporting and recordkeeping requirements. | Y | |
| 60.108 | Performance test and compliance provisions. | 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 (4/11/02) | Y | <u>Notifi- cation by 8/9/02; com- pliance by 4/11/05</u> |
| 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 4 | 300 ppmv SO2 limit [applicable to S-4285] | Y | |
| Part 5 | 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 | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 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 1 | Source test requirement for 9-1-313.2 | Y | |
| Part 2 | Source test requirement for compliance with 6-330 | Y | |

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

S-4155 F-135 Hot Oil Furnace, 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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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/Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|--|
| 40 CFR 63 Subpart UUU | National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02) | Y | <u>Notifi- cation by 8/9/02; com- pliance by 4/11/05</u> |
| Condition #469 | Applies to S-4233, S-4234, S-4236, S-4237, S-4250, S-4252, S-4261, S-4262, S-4265, S-4283, S-4291, S-4292, S-4340, S-4341, S-4342, S-4343, S-4400 | Y | |
| Condition | Applies to S-4235. | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.C.3.1 Process Units
 Source-specific Applicable Requirements**

Miscellaneous Process Units

S-4155 F-135 Hot Oil Furnace, 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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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/Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4400 Wax Melt Vessel, S-6050 MTBE Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| #8180 | | | |
| Condition #8773 | Applies to S-4251 & 4155. | Y | |
| 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 < 80F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gpm, water/vent flow ratio > 11.6 | Y | |
| Condition #16393 | Applies to S-4261 | Y | |
| Condition #20944 | Applies to S-4292 | N | |
| Condition #18137 | Throughput Limits | N | |

IVH. Source-Specific ~~Generally~~ 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 1 | General Provisions and Definitions (05/02/01) | | |
| 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 | |
| 1-602 | Area and Continuous Emissions Monitoring | N | |
| NSPS Title 40 Part 60 Subpart A | General Provisions | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|---|---|-----------------------------|-----------------------|
| NESHAP Title 40 Part 61 Subpart A | NESHAP, General Provisions (03/16/94) | | |
| 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 | |
| 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 (01/07/93) | | |
| 40 CFR 61.357(d) | Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste | Y | |
| NESHAP Title 40 Part 63 Subpart A | General Provisions of MACT Standards (03/16/94) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 63.8 | 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 | |
| 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 | 12/29/03 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution | Y | 12/29/03 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation | Y | 12/29/03 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters | Y | 6/27/04 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines | Y | 6/27/04 |
| 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 | 11/12/05 |
| 63.52(h) | Enhanced monitoring | Y | |
| 63.52(h)(i) | MACT emission limitations | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|-----------------------------|---|-----------------------------|-----------------------|
| 63.52(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 | |
| 40 CFR 63 Subpart CC | National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) | | |
| 63.640(a) | Applicability applies to petroleum refining process units and to related emission points. | Y | |
| 63.640© | 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 | |
| 63.642© | 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 | |

IVH. Source-Specific ~~Generally~~ 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(e) | 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) for other emission points. | Y | |
| 63.642(k) | Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g) | Y | |
| 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© | Periodic measurement of benzene concentrations | Y | |
| 63.654(a) | Compliance with in recordkeeping in 40 CFR 61, Subpart FF | Y | |
| 63.654(e) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g) | Semi-Annual Reporting and Recordkeeping Requirements | Y | |
| 63.654(h)(1) | Reports of startup, shutdown, and malfunction | Y | |
| 63.654(h)(2) | Notifications of inspections for storage vessels | Y | |
| 63.654(i)(1) | Records for storage vessels | Y | |
| 63.654(i)(4) | Information required by 63.654(h) | Y | |
| Appendix Table 1 | Hazardous Air Pollutants | Y | |
| Appendix Table 6 | Hazardous Air Pollutants | Y | |
| BAAQMD Regulation 8 Rule 5 | Storage of organic liquids (12/15/99) | Y | |
| 8-5-117 | Low vapor pressure exemption | Y | |
| BAAQMD Regulation 8 Rule 10 | Organic Compounds, Process Vessel Depressurization (7/20/83) | Y | |
| 8-10-301 | Depressurization Control Options | Y | |
| 8-10-401 | Record Keeping | Y | |

IVH. Source-Specific ~~Generally~~ 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 18 | Organic Compounds, Equipment Leaks (1/7/98) | Y | |
| BAAQMD Regulation 8 Rule 40 | Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99) | Y | |
| 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 | |
| BAAQMD Regulation 9 Rule 1 | Sulfur Dioxide(3/15/95) | N | |
| 9-1-110 | Conditional Exemption, Area Monitoring | Y | |
| 9-1-301 | Limitations on Ground Level Concentrations | Y | |
| 9-1-302 | General Emission Limitation (only if facility does not have approved SO2 GLM network area monitors are not of compliance) | 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 #20620 | | | |
| Part 1 | Requirement to apply to incorporate 40 CFR 63, Subpart UUU (40 CFR 63, Subpart UUU) | Y | 10/11/04 |
| Part 2 | Requirement to submit startup, shutdown, and maintenance plan for catalytic cracking units, catalytic reforming units, and sulfur recovery plants (<u>40 CFR 63.1574(f)</u>) | Y | 4/11/05 |
| Condition #20764 | | | |

IVH. Source-Specific ~~Generally~~ 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 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 | |
| | | | |

**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)

| 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) [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 1 | Source test requirement for 9-1-313.2 | Y | |
| Part 2 | Source test requirement for 6-330 | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**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)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Condition 18945 | | | |
| Parts 1-6 | Daily and annual throughput limits | N | |
| Part 7 | Record keeping | N | |

**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, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/2/01) | 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 | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures [applicable in accordance with 9-1-502] | NY | |
| 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 | YN | |
| 1-522.8 | Monitoring data submittal requirements | Y | |

IVH. Source-Specific ~~Generally~~ 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, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| 1-522.9 | Recordkeeping requirements | Y | |
| SIP Regulation 1 | General Provisions and Definitions (10/7/98) [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 | |
| 1-522.7 | Emission limit exceedance reporting requirements | Y | |
| BAAQMD Regulation 6 | Particulate Matter and Visible Emissions (12/19/90) | | |
| 6-301 | Ringelmann Number 1 Limitation | Y | |
| 6-310 | Particulate Weight Limitation | 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 | |
| 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 SO2 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 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) [if subject to 9-1-304 or 9-1-307] | Y | |
| SIP Regulation 9 Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92) [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 | |

IVH. Source-Specific ~~Generally~~ 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, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|--|
| 40 CFR 63 Subpart UUU | National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02) | Y | <u>Notifi- cation by 8/9/02; com- pliance by 4/11/05</u> |
| Condition #469 | Refinery Cap | Y | |
| Condition #18655.1 | Annual Source Test to demonstrate compliance with 9-1-313.2 | Y | |
| Condition #18655.2 | Annual SO3/H2SO4 Source Test | Y | |
| Condition #19063.1 | SRU #1 Train Sulfur Throughput Limit [applies to S-4227] | N | |
| Condition #19063.2 | SRU #2 Train Sulfur Throughput Limit [applies to S-4228] | N | |
| Condition #19063.3 | SRU #2 Train Sulfur Throughput Limit [applies to S-4229] | N | |
| Condition #19063.4 | 10 ppm H2S SRU stacks limit [applies to Tail Gas Units A-20, A-21, and A-22] | Y | |
| Condition #19063.5 | Daily log | N | |
| Condition #19063.6 | Log kept onsite 5 years | N | |

**Table IV.E.3.1 Sulfur Recovery
 Source-specific Applicable Requirements**

Sulfur Racks

S-3140, S-3141, S-4396 Sulfur Loading Racks abated by A-0043 Vent Water Scrubber

IVH. Source-Specific ~~Generally~~ Applicable Requirements

| 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 Tank S-3141 shall be abated by A-0043 Venturi Scrubber. (Basis: cumulative increase) | N | |
| Condition #1046 Part 2 | Downtime of the A-43 Scrubber shall be minimized to the extent practicable | N | |
| Condition #1046 Part 3 | Owner/operator of S-3141 shall maintain records of preventive maintenance downtime | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.1 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01a

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-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

External Floating Roof Tanks Cluster 01a

S-3185

Internal Floating Roof Tanks Cluster 01a

S-3182

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|---|---|-----------------------|
| BAAQMD Regulation 8-5-117 | Low Vapor Pressure Exemption < 0.5 psia (11/27/02) | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR RECORD KEEPING ONLY | | |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.1 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01a

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-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

External Floating Roof Tanks Cluster 01a

S-3185

Internal Floating Roof Tanks Cluster 01a

S-3182

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date | |
|------------------------|--|---|-----------------------|--|
| 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 | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.1 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01a

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-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

External Floating Roof Tanks Cluster 01a

S-3185

Internal Floating Roof Tanks Cluster 01a

S-3182

| 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 |
| Condition #4233 | Applies to S-2917 and S-2918 | N | |
| Condition #11024 | Applies to S-3185 | Y | |
| Condition #12580 | Applies to S-1821 | N | |
| Condition #1046 | Applies to S-3141 | N | |
| Condition #18137 | Throughput limits | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, , S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1427, S-1431, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1908, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also in Table IV.E.3.1), S-3142, S-3146, S-3148, S-3310

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|---|--|-----------------------|
| BAAQMD Regulation 8-5-117 | Low Vapor Pressure Exemption < 0.5 psia (11/27/02) | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 hr | 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) | Implementation Plan | 63.646(i) & 63.652(b) Not required | Y |
| 63.654(f) 63.652(b) | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, , S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1427, S-1431, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1908, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also in Table IV.E.3.1), S-3142, S-3146, S-3148, S-3310

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| | Other (initial) Reports: Report applicability for varying-use tanks? 63.654(h)(6)(ii) required with the initial Notification of Compliance Status report | | |
| 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 | |
| 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 | |
| | Applicability records: Additional recordkeeping requirements for certain tanks. 63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank | | |
| Condition # 4233 | Applies to S-1908 | 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 #11228 | Throughput Limits | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.2 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 01b

S-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, , S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1427, S-1431, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1908, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also in Table IV.E.3.1), S-3142, S-3146, S-3148, S-3310

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Condition #11436 | Applies to S-1653 | Y | |
| Condition #18137 | Throughput limits | N | |

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 02

S-0021, S-0660, S-6066

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 5 | Storage of Organic Liquids (11/27/02) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.3 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 02

S-0021, S-0660, S-6066

| 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 | |
| 8-5-301 | 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 cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |
| 8-5-328.2 | Tank degassing when ozone excess is predicted | 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 #11193 | Applies to S-0660 and S-6066 | Y | |
| Condition #18137 | Throughput limits | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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 | Storage of Organic Liquids (11/27/02) | | |
| 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 cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |
| 8-5-328.2 | Tank degassing when ozone excess is predicted | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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 |
|--|---|--|-----------------------|
| 8-5-603 | 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 | |
| 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y |
| | Clarification with respect to violations | 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y |
| 63.654 | Which recordkeeping and reporting requirements govern? | 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y |
| NESHAP Subpart FF | Benzene Waste Operations REQUIREMENTS FOR CONTAINERS | | |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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 |
|------------------------|--|--|-----------------------|
| | 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 |
| | Requirement to keep openings closed not applicable when the cover and closed vent system are operated at negative pressure, subject to specified criteria? | 61.345(a)(4) yes, but the container is not required to have a closed vent system, & the enclosure is not required to have all openings closed and sealed | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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© required for the container 61.345© required for the enclosure | Y |
| | Delay of repair allowed? | 61.345© yes, for the container, per 61.350 61.345© 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 alternative technology? | 61.349(a)(2)(iv) reduce TOC ≥ 95% or benzene ≥ 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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 to demonstrate compliance of a control device that is not a flare? | 61.349© 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© | 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© 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.4 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks 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 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 #11193 | Applies to S-0605 | Y | |
| Condition #10761 | Applies to S-6200 through S-6219 | Y | |
| Condition #18137 | Throughput limits | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 8-5-304 | 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| 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 cleaning requirements | Y | |
| 8-5-328.1.2 | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORD KEEPING ONLY | | |
| 63.642(e) 63.654(l) | 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 hr | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.5 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| 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 |
| 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 |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank | Y |
| Throughput | Conditon #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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.6 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 12

S-1633

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 8-5-305 | 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.6 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 12

S-1633

| 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 | |
| 8-5-328.1.2 | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries 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) & 63.654(i)(4) 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) & 63.654(i)(4) required | Y |
| 63.646(h) | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.6 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 12

S-1633

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 63.654(f) | Notification of Compliance Status report: 63.654(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)? 63.654(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 | |
| 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 | |
| 63.654(l) | Applicability records: Additional recordkeeping requirements for certain tanks. 63.654(l)(1)(iv) determination of HAP content. Keep record readily accessible for service life of the tank. | Y | |
| Condition #18137 | Throughput limits | N | |

**Table IV.F.1.7 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 13

S-1726, S-1727, S-1757, S-1758

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
|------------------------|--|-----------------------------|-----------------------|

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.7 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 13

S-1726, S-1727, S-1757, S-1758

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |
| 8-5-328.2 | Tank degassing when ozone excess is predicted | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.7 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 13

S-1726, S-1727, S-1757, S-1758

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|---|-----------------------|
| Refinery MACT | NESHAP for Petroleum Refineries 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 |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.8 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 16

S-9302, S-9303

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |
| 8-5-328.2 | Tank degassing when ozone excess is predicted | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.8 Tanks
 Source-specific Applicable Requirements**

Fixed Roof Tanks Cluster 16

S-9302, S-9303

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|--|-----------------------|
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.654(i)(4) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: keep all reports and notification for the specified period of time. | 63.642(e) & 63.654(i)(4) required | Y |
| 63.654(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) | 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 |
| | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable 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 |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable 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 |
|------------------------|---|--------------------------------|-----------------------|
| 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 | |
| 8-5-328.1.2 | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS K | | |
| 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 |
| NSPS Subpart K | Petroleum Liquids Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | | |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable 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 |
|--|--|---|-----------------------|
| | 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 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.9 Tanks
 Source-specific Applicable 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 |
|-------------------------|---|-----------------------------|-----------------------|
| Condition #18137 | Throughput limits | N | |
| Condition #21237 | Notification requirement for S-1514, S-3072, and S-3101 regarding pumping and piping capacities. | N | |

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

Table IV.F.1.10 Tanks
Source-specific Applicable Requirements

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-3225

| 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 | |
| 8-5-304 | 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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 cleaning requirements | Y | |
| 8-5-328.1.2 | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| 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 | Y | |
| 8-5-603.1.2 | Concentration of organic compounds after degassing | Y | |
| 8-5-604 | Determinations of Applicability | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| | 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 |
| | 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 year or more of exempt service: | 60.113b(b)(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(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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|--|-----------------------|
| | 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 EFRs: 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 |
| | Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? | 60.113b(4)(ii)(B) | Y |
| | EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? | 60.113b(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(4)(iii) required | Y |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: | 60.113b(4)(iii) document the reason for the extension | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|--|-----------------------|
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for nonexempt tanks? | 60.116b(b) required keep records readily accessible for the life of the tank | Y |
| 60.116b© | Applicability records: Additional recordkeeping requirements for certain tanks. | 60.116b© 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(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 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 beginning construction. | Y |
| <u>60.7(a)</u> <u>60.115b</u> | 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: <u>New</u> 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 #6660 | Applies to S-3189 | | Y |
| Condition #6661 | Applies to S-3190 | | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.10 Tanks
 Source-specific Applicable Requirements**

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-3225**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| Condition #7583 | Applies to S-3191 | Y | |
| Condition #8253 | Applies to S-3193 | Y | |
| Condition #13467 | Applies to S-3196 | Y | |
| Condition #8252 | 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 | |

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
|------------------------|--|-----------------------------|-----------------------|

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 8-5-305 | 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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- <u>305.1</u> | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| 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 | 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 | | |
| 8-5-328.1.2 | 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 | | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| | 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 |
| | 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 Subpart Kb | Volatiles Organic Liquid Storage Vessels 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |
| | IFRT/CFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: 60.113b(a)(2) make repairs within 45 days | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|--|-----------------------|
| | 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 <u>both</u> 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 |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| 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 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) determination for applicability: | 60.116b(e) 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: 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.11 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Condition #18137 | Throughput limits | N | |

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|--|--|-----------------------|
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-328 | Tank cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |
| 8-5-328.2 | Tank degassing when ozone excess is predicted | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | | |
| 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© | Control device (other than flare) Compliance demonstration: | 60.113b©(1) operating plan, efficiency demonstration & parameter(s) to be monitored | Y |
| | Other (initial) Reports: For control device other-than flare? | 60.113b©(1) submit operating plan for approval, with the initial notification | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| 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 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) 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|--|---|--|-----------------------|
| 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 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 |
| 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 |
| Refinery MACT | NESHAP for Petroleum Refineries 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|--------------------------|--|--|-----------------------|
| 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 supercede those in 61 Subpart FF | Y |
| | Clarification with respect to violations | 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y |
| 63.654 | Which recordkeeping and reporting requirements govern? | 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y |
| NESHAP Subpart FF | Benzene Waste Operations 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| | Requirement to keep openings closed not applicable when the cover and closed vent system are operated at negative pressure, subject to specified criteria? 61.345(a)(4) yes, but the container is not required to have a closed vent system, & the enclosure is not required to have all openings closed and sealed | 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© required for the container 61.345© required for the enclosure | Y | |
| | Delay of repair allowed? 61.345© yes, for the container, per 61.350 61.345© 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 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© 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© | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|---|--|-----------------------|
| 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 <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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.12 Tanks
 Source-specific Applicable Requirements**

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 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 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 <u>and similar fixed projections</u> | Y | |
| 8-5-320.5 | Slotted sampling or gauging wells <u>and similar fixed projections</u> | 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 cleaning requirements | Y | |
| 8-5-328.1.2 | Concentration of <10,000 ppm as methane after cleaning | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|--|-----------------------|
| 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | | |
| 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 hr | 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(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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|--|-----------------------|
| | 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 |
| 63.646© | EFR well covers to be gasketed? | 63.646© not required at existing sources | Y |
| | EFR vents to be gasketed? | 63.646© not required at existing sources | Y |
| | EFR deck openings other than for vents to project into liquid? | 63.646© not required at existing sources | Y |
| | EFR access hatch & gauge float well covers to be bolted closed? | 63.646© not required at existing sources | Y |
| | EFR emergency roof drains to have seals covering at least 90% of the opening? | 63.646© not required at existing sources | Y |
| | EFR guidepole wells to have a deck cover gasket and a pole wiper? | 63.646© not required at existing sources | Y |
| | EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? | 63.646© not required at existing sources | Y |
| | EFRT slotted guidepoles to have either an internal float or a pole sleeve? | 63.646© 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|---|-----------------------|
| 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 |
| 63.646(l) 63.654(h) | Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? | 63.646(l) 63.654(h)(2)(i)&(ii) yes | Y |
| 63.654(f) | Report (document) having initially achieved compliance? | 63.654(f) later of next Periodic Report after achieving compliance or 1/15/99 | Y |
| | 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 |
| | EFRT report to include: | 63.654(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls | Y |
| 63.654(g) | Report of periodic inspections, etc. AFTER documenting initial compliance? | 63.654(g) begin Sept 13, 1999 then semiannual | Y |
| | Periodic Reports: Report of EFR inspection failures to include: | 63.654(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? | 63.654(-)(2) – (4) prior request is not required | Y |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: | 63.654(g)(2)(i) 63.654(g)(3)(ii) document the reason for the extension | Y |
| | Periodic Reports: Report EFR seal gap Inspections if there was No out-of-compliance? | 63.654(g)(3)(i) Not required | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| | Periodic Reports: Report EFR seal gap Inspections when there is out-of-compliance? | 63.654(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? | 63.654(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? | 63.654(h)(2)(ii) 63.646(a) 63.120(b)(9) required | Y |
| | 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 |
| 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 |
| 63.654(i) 63.123© 63.654(d) 63.123(e) | Record keeping for inspections: Keep inspection reports as specified | 63.654(i)(1) 63.123© - (e) all inspections | Y |
| | Records of EFR inspection reports: | 63.654(i)(1) 63.123(d) all inspections | Y |
| 63.654(i) 63.123 (g) | Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. | 63.654(i)(1) 63.123 (g) required | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.13 Tanks
 Source-specific Applicable Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| 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 | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks 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 | 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 | |
| 8-5-305 | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks 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 cleaning requirements | Y | |
| 8-5-328.1.2 | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS | | |
| 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 hr | Y |
| | General recordkeeping requirements: keep all reports and notification for the specified period of time. | 63.642(e) & 63.654(1)(4) 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks 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© | IFR well covers to be gasketed? | 63.646© not required at existing sources | Y |
| | IFR vents to be gasketed? | 63.646© not required at existing sources | Y |
| | IFR deck openings other than for vents to project into liquid? | 63.646© not required at existing sources | Y |
| | IFR access hatch & gauge float well covers to be bolted closed? | 63.646© not required at existing sources | Y |
| | IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover? | 63.646© not applicable at existing sources | Y |
| | IFRT unslotted guidepoles to have a gasketed cap at the top of the pole? | 63.646© 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© 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(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 |
| 63.646(l) 63.654(h) | Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? | 63.646(l) 63.654(h)(2)(i)©&(ii) yes | Y |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 27

S-1289, S-1645

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|---|-----------------------|
| 63.654(f) | Report (document) having initially achieved compliance? | 63.654(f) later of next Periodic Report after achieving compliance or 1/15/99 | Y |
| | 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 |
| | IFRT/CFRT report to include: | 63.654(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls | Y |
| 63.654(g) | Report of periodic inspections, etc. AFTER documenting initial compliance? | 63.654(g) begin Sept 13, 1999, then semiannual | Y |
| | Periodic Reports: Report of IFR/CFR inspections that find out-of-compliance? | 63.654(g)(2) – (4) required within 60 days after each semiannual period | Y |
| | Periodic Reports: Report of IFR/CFR inspection failures to include: | 63.654(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? | 63.654(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: | 63.654(g)(2)(i) 63.654(g)(3)(ii) document the reason for the extension | Y |
| 63.654(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? | 63.654(h)(2)(i) 63.646(a) 63.120(a)(5)&(6) required | Y |
| | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.F.1.14 Tanks
 Source-specific Applicable Requirements**

Internal Floating Roof Tanks Cluster 27

S-1289, S-1645

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| 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 |
| 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 |
| 63.654(i) 63.123© 63.654(d) 63.123(e) | Record keeping for inspections: keep inspection reports as specified | 63.654(i)(1) 63.123© - (e) all inspections | Y |
| | Records of IFR & CFR inspection reports: | 63.654(i)(1) 63.123© & (e) all inspections | Y |
| 63.654(i) 63.123 (g) | Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. | 63.654(i)(1) 63.123 (g) required | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank | Y |
| Condition #18137 | Throughput limits | N | |

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
|------------------------|--|-----------------------------|-----------------------|

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y | |
| NESHAP Subpart FF | Benzene Waste Operations REQUIREMENTS FOR TREATMENT PROCESSES | | |
| 61.342 | Exemption for units downstream of the DAF 61.342 & 61.348 only if benzene concentration < 10 ppmw or the treatment process requirements are otherwise met | Y | |
| | Which facilities subject to this regulation are required to treat waste streams and control air emissions? 61.342(a) if Total Annual Benzene \geq 10 Mg/yr, specified waste streams must be treated and specified Waste Management Units must be controlled; otherwise only recordkeeping & reporting is required | Y | |
| | When must facilities achieve compliance? 61.342(b) new sources shall be in compliance upon initial startup | Y | |
| | Where are the treatment requirements specified? 61.342©(1)(i) waste streams (unless exempted) shall be treated onsite [per 61.348] or offsite [per 61.342(f)] | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Where are the requirements for controlling air emissions specified? 61.342©(1)(ii) Waste Management Units receiving a waste stream prior to or during treatment per 61.342©(i) shall be controlled per the appropriate equipment standard [specified in 61.343-347] | Y | |
| | Are waste streams that are to be recycled to a process subject to controls? 61.342©(1)(iii) Waste Management Units receiving a waste stream prior to recycling to a process shall be controlled per the appropriate equipment standard [specified in 61.343-347] | Y | |
| | Exemption from controls for low concentration of pollutants (records are required) 61.342©(2) a waste stream with benzene concentration < 10 ppmw is exempt from treatment unless selected for treatment per 61.342(d) or (e) [but records are required] | Y | |
| | Are there other waste streams that may be exempt from treatment and controls on the basis of low flow rate or other mass limits? 61.342©(3), (d) & (e) one of the four options specified herein may be selected for determining waste streams to exempt from treatment - see the BWON | Y | |
| | Are there notices required for wastes sent off-site? 61.342(f) wastes sent off-site for treatment shall include a notice that the waste is subject to this rule | Y | |
| | How is compliance determined? 61.342(g) compliance will be determined by review of facility records and monitoring/test results | Y | |
| | Are there provisions for alternatives to the specified treatment and control technologies? 61.342(h) provisions for alternatives are specified in 61.353 | Y | |
| 61.348 | What level of performance is required for the treatment process? 61.348(a)(1) reduce benzene concentration to below 10 ppmw; or remove benzene mass by at least 99%; or destroy benzene by at least 99% via incineration | Y | |
| | Are treatment processes (e.g. a steam stripper) subject to the same controls as wastewater treatment units? 61.348(a)(2) treatment processes shall be controlled for air emissions in the same manner as wastewater treatment units (all are defined as Waste Management Units per 61.341) | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| | Are there special rules for combined waste streams? | 61.348(a)(3)-(5) waste streams may be combined to facilitate wastewater treatment, but dilution cannot be considered treatment; such combined waste streams shall be controlled per 61.348(b) | Y |
| | Does combining waste streams restrict the mass-limit options available for selecting waste streams to exempt? | 61.348(b) combined waste streams shall comply with either the requirements of this paragraph or the 61.342(e) option | Y |
| | Exemption for biological treatment units | 61.348(b) & 61.355(k) enhanced bio units may be exempt for controls under the cited options if benzene concentration < 10 ppmw | Y |
| | What is required to demonstrate compliance of the treatment process? | 61.348© either engineering calculations or performance tests | Y |
| | Are there exemptions in the case of overlapping regulations? | 61.348(d) waste streams that are controlled under certain Resource Conservation and Recovery Act or Clean Water Act rules are exempt from treatment under this rule [but records are required] | Y |
| | Are the requirements for inspecting openings in treatment processes modified as compared to openings in wastewater treatment units? | 61.348(e) no detectable emissions (< 500 ppmv) and annual verification by Method 21 are only required for systems operated under negative pressure | Y |
| | Can performance tests be required for treatment processes? | 61.348(f) perform performance tests of the treatment process upon the request of the Administrator | Y |
| | How is ongoing compliance of the treatment process to be assured? | 61.348(g) the treatment process shall be monitored per 61.354 | Y |
| 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 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|------------------------------------|------------------------------|
| 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 | |
| What is required if the control device is a flare? | 61.349(a)(2)(iii) comply with 60.18 | Y | |
| What is required if the control device is an alternative technology? | 61.349(a)(2)(iv) reduce Total Organic Compounds \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 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 | |
| What is required to demonstrate compliance of a flare? | 61.349(d) demonstrate compliance per 60.18 | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date | |
|------------------------|---|--|-----------------------|--|
| 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 | What monitoring is required for the waste streams exiting the treatment process? | 61.354(a) monthly sampling to measure the exiting benzene concentration <u>or</u> continuous parametric monitoring; except for streams controlled under certain other rules per 61.348(d) | Y | |
| | Is additional monitoring required for combined waste streams? | 61.354(b) for a combined waste stream subject to 61.348(b) also monitor monthly the benzene concentration entering the first exempt Waste Management Unit, & the flow if not a bio-unit | 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 | |
| | 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 <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 | How is the total annual benzene quantity from facility waste (Total Annual Benzene) determined? | 61.355(a) – (c) as specified herein | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|--|-----------------------|
| | Procedure for performance testing of treatment processes | 61.355(d) for 61.348(a)(1)(i) to demonstrate compliance with 10 ppmw | 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 |
| | 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 |
| | Procedure for determining specified benzene quantity (Benzene Quantity) | 61.355(j) for 61.342©(3)(ii) to demonstrate compliance w/ benzene mass limit | Y |
| | 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) – (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© 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|---|-----------------------|
| | 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 | |
| 61.357 | Is an initial facility status report required? 61.357(a) required, with Total Annual Benzene determination & data on each waste stream | Y | |
| | What continuing reports are required subsequent to the initial report, for facilities exempt from controls? 61.357© if $1 \leq \text{Total Annual Benzene} < 10 \text{ Mg/yr}$, update the facility status report annually, and when a change results in Total Annual Benzene $\geq 10 \text{ Mg/yr}$ | Y | |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.1 Wastewater
 Source-specific Applicable Requirements**

Treatment Unit Cluster 10

S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|---|-----------------------------|-----------------------|
| 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 keepings-3200 fugitive count- final | Y | |
| Condition #11193 Part 2 | Applies to S-6061 Flanges equipped with BACT as specified | Y | |
| Condition #11193 Part 3 | Applies to S-6061 Valves equipped with BACT as specified | Y | |
| Condition #18137 | Throughput limits | N | |

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to QQQ

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 8 | Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS) | | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to QQQ

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date | |
|-------------------------------------|--|--|-----------------------|--|
| 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 | |
| | 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 | | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.2 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20d

Process Drains Not Subject to QQQ

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? 63.654(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 | |

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 8 | Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS) (6/15/94) | | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|--|-----------------------|
| 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 |
| | 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 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR WASTEWATER STREAMS | | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20q

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

| 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations | 63.647(c) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? | 63.654(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 Subpart QQQ | Petroleum Refinery Wastewater Systems REQUIREMENTS FOR INDIVIDUAL DRAIN SYSTEMS Requirements shown are for compliance with 60.692-2, and do not address compliance with 60.693-1. | | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20g

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| | 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 \geq 3 ft long & \leq 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 |
| 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.3 Wastewater
 Source-specific Applicable Requirements**

Process Drains Cluster 20g

S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|--|-----------------------|
| | 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 |

**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 |
|-----------------------------------|--|--|-----------------------|
| BAAQMD Regulation 8 Rule 8 | Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS REQUIREMENTS FOR OIL-WATER SEPARATORS | | |
| 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 conc. (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels] | Y |

IVH. Source-Specific ~~Generally~~ 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 | |
|------------------------|--|---|-----------------------|--|
| | 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 | |
| 8-8-114 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 | |
| 8-8-301 8-8-302 | Are there conditions for which vapors are not required to be routed to a control device? | 301.1, 302.1, 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? | 301.1 if capacity is < 300 gal/min and the fixed cover is gasketed w/no gaps > 1/8 in, subject to semiannual inspections, then vapors need not be routed to control device 302.1 if capacity is ≥ 300 gal/min then routing to a control device is not required if the fixed cover is full contact and vapor tight 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 | |
| | If not exempt from the control device requirements, are there alternative provisions for compliance? | 301.2 & 302.2 floating roof | Y | |
| | What are the requirements of the alternative? | 301.2 & 302.2 Floating roof shall be vapor-tight, and shall be equipped with primary and secondary seals subject to gap criteria, with inspection of the primary seal every 5 years and inspection of the secondary seal annually | Y | |
| | Route vapors through a closed vent system to a control device? | 301.3 & 302.3 required | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|--|-----------------------------|-----------------------|
| | Closed vent system requirements? 301.3 & 302.3 95% efficiency, by weight requirement applies to the combination of collection and destruction of vapors | Y | |
| | Control device requirements? 301.3 & 302.3 95% efficiency, by weight requirement applies to the combination of collection and destruction of vapors | 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 | |
| 8-8-501 | Are records required for bypassed wastewater? 501 for 114 required | Y | |
| 8-8-501 8-8-502 | How long are records to be kept? 501 & 502 keep all records | Y | |
| 8-8-502 | 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 | |
| 8-8-503 | Are records required for visual inspections and repairs? 503 required for each inspection | Y | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|-------------------------------------|---|-----------------------------|-----------------------|
| 8-8-603 8-8-504 | Demonstrate no detectable emissions using Method 21? 603 & 504 required | 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 | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y | |
| NESHAP Subpart FF | 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 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.] | | |
| Condition #18137 | Applies to S-4148, S-4413, S-4414 | N | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 (OIL-WATER) SEPARATORS TANKS exempt FROM CONTROLS | | |
| 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 |
| | 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 |
| 8-8-114 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 |
| 8-8-501 8-8-502 | How long are records to be kept? | 501 & 502 keep all records | Y |
| | Are records required for bypassed wastewater? | 501 for 114 required | 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 |
| 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 |
|--------------------------|--|--|-----------------------|
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y |
| | Clarification with respect to violations | 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y |
| 63.654 | Which recordkeeping and reporting requirements govern? | 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y |
| NESHAP Subpart FF | Benzene Waste Operations 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 |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| | Requirement to keep openings closed not applicable when the cover and closed vent system are operated at negative pressure, subject to specified criteria? 61.343(a)(1)(i)(C) yes | Y | |
| | Are there conditions for which vapors are not required to be routed to a control device? 61.343(b)(1) Not required for non-aqueous streams if: TVP < 0.75 psi, or < 40,000 gallons & < 4.0 psi < 20,000 gallons & < 11.1 psi | Y | |
| | What is required for WMUs not routed to a control device? 61.343(b)(2) & (3) Fixed roof & P/V vent | Y | |
| | Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.343© required | Y | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 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 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 | |
| | What is required if the control device is a flare? 61.349(a)(2)(iii) comply with 60.18 | Y | |
| | 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© performance tests | Y | |
| | What is required to demonstrate compliance of a flare? 61.349(d) demonstrate compliance per 60.18 | 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© | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 |
|------------------------|---|-----------------------------|-----------------------|
| 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 <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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 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 | |
| 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 #11193 | Permit conditions as follows: | | |
| Part 1 | Applies to S-0605 abated by A0607 and S-0610 Total Throughput for S-0605 | Y | |
| Part 2 | Applies to S-0605 abated by A0607 and S-0610 Flanges equipped with BACT | Y | |
| Part 3 | Applies to S-0605 abated by A0607 and S-0610 Valves equipped with BACT | Y | |
| Part 6 | Applies to S-0605 abated by A0607 and S-0610 Vent S-0605 to A-0607 at all times | Y | |
| Part 7 | Applies to S-0605 abated by A0607 and S-0610 Vent S-0610 to A-0607 at all times | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.G.1.5 Wastewater
 Source-specific Applicable Requirements**

Non-EFRT or IFRT Tanks Cluster 40b

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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 8 | Applies to S-0605 abated by A0607 and S-0610 Abatement efficiency of 95% or more | Y | |
| Part 9 | Applies to S-0605 abated by A0607 Carbon Monitoring requirement | Y | |
| Part 10 | Applies to S-0605 abated by A0607 and S-0610 Annual average Benzene concentration <250 ppm | Y | |
| Part 11 | Applies to S-0605 abated by A0607, and S-0610 Sample/Analysis Required | Y | |
| Part 12 | Applies to S-0605 abated by A0607, and S-0610 Record keeping | 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-0605, S-3110, S-3111 | N | |

IVH. Source-Specific ~~Generally~~ 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 |
|---------------------------------------|---|--|-----------------------|
| SIP BAAQMD Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS. REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | | |
| 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 |
| | 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 |
| 8-5-311 8-5-320 8-5-321 | EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: | 311.1, 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 |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|---|---|-----------------------|
| | EFRT Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed? | 320.3 required Y | |
| | EFRT 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 | |
| | EFRT emergency roof drains to have seals covering at least 90% of the opening? | 320.6 required Y | |
| 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 | |
| | EFRT Primary Seal Gap Inspection Criteria: maximum area: maximum gap width: | 321.3 & 321.– 0.5 – 2.5 in. Y | |
| 8-5-322 | EFRT 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|---|---|------------------------------------|------------------------------|
| 8-5-402 | Seal Gap Measurements: 402 FREQUENCY AFTER INITIAL annually COMPLIANCE, For the EFR Secondary Seal: | Y | |
| | EFR Internal Inspections: up-close 402 visual inspection of the floating roof, at the same schedule as the secondary seals, & fittings: seal | Y | |
| 8-5-404 | Seal Gap Measurements: 404 For new EFRTs: submit certification of seal gap measurements upon installation | Y | |
| | Notification of Compliance Status 404 report: certification to be submitted upon installation for floating-roof rim seals | Y | |
| | EFRT report to include: 404 seal gap measurements | Y | |
| | Periodic Reports: 404.3 Miscellaneous additional annual certification of tank degassing information to report: equipment | Y | |
| 8-5-405 | Periodic Reports: 405 Report EFR seal gap inspections if required (at same frequency as the there was no out-of-compliance? 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: 405 Report EFR seal gap inspections required (at same frequency as the when there is out-of-compliance? 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: 405 Report of EFR inspection date of inspection, actual seal gap data, failures to include: & determination of compliance | Y | |
| 8-5-501 | Applicability records: 501 Additional recordkeeping type of liquid stored & its TVP, for all requirements for certain tanks. nonexempt tanks | Y | |
| 8-5-602 | True vapor pressure (TVP) 602 or 604 determination for applicability: based on maximum (instantaneous) tank storage temperature | 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|--|---|-----------------------|
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|---|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |
| | MEASUREMENT CONDITIONS: 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| | 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 | |

IVH. Source-Specific ~~Generally~~ 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 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 |
| | 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 |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|--|---|-----------------------|
| 60.116b© | Applicability records: Additional recordkeeping requirements for certain tanks. | 60.116b© 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(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 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 |
| | 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: <u>New</u> 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 |
| Refinery MACT | NESHAP for Petroleum Refineries 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 |

IVH. Source-Specific ~~Generally~~ 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 |
|--------------------------|---|-----------------------------|-----------------------|
| | 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y | |
| NESHAP Subpart FF | Benzene Waste Operations 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------|--|-----------------------------|-----------------------|
| | 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 | |
| Conditon #20361 | 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 | Recordkeeping | N | |

**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 (OIL-WATER) SEPARATORS SURFACE IMPOUNDMENTS exempt FROM CONTROLS | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 | |
|-------------------------------------|---|--|-----------------------|--|
| | 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 | |
| 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 | | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y | |
| | Clarification with respect to violations | 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? | 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|---------------------------|--|-----------------------------|-----------------------|
| NESHAP Subpart FF | 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 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 11 | Applies to S-4393 | Y | |

**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 (OIL-WATER) SEPARATORS (CONTAINERS exempt FROM CONTROLS) | | |
| 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] | | |

IVH. Source-Specific ~~Generally~~ 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 | |
|-------------------------------------|---|--|-----------------------|--|
| | 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 | |
| 8-8-114 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 | |
| 8-8-501 8-8-502 | How long are records to be kept? | 501 & 502 keep all records | Y | |
| | Are records required for bypassed wastewater? | 501 for 114 required | 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 | |
| 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 | | |
| Refinery MACT | NESHAP for Petroleum Refineries 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 supercede those in 61 Subpart FF | Y | |

IVH. Source-Specific ~~Generally~~ 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© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation | Y | |
| 63.654 | Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF | Y | |
| NESHAP Subpart FF | Benzene Waste Operations REQUIREMENTS FOR CONTAINERS | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 | |
| | Requirement to keep openings closed not applicable when the cover and closed vent system are operated at negative pressure, subject to specified criteria? 61.345(a)(4) yes, but the container is not required to have a closed vent system, & the enclosure is not required to have all openings closed and sealed | 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© required for the container 61.345© required for the enclosure | Y | |
| | Delay of repair allowed? 61.345© yes, for the container, per 61.350 61.345© 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 | |

IVH. Source-Specific ~~Generally~~ 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 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)(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© 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© | 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© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e) | Y | |

IVH. Source-Specific ~~Generally~~ 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 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 <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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|-------------------------|--|-----------------------------|-----------------------|
| Condition #12842 | Permit condition applies as follows: | | |
| Part 1 | Applies to S-6250 abated by A0630 and S-6250 vented to abatement at all times A0631 | Y | |
| Part 2 | Applies to S-6250 abated by A0630 and A-0630 Carbon Replacement Requirement A0631 | Y | |
| Part 3 | Applies to S-6250 abated by A0630 and A-0631 Carbon Replacement Requirement A0631 | Y | |
| Part 4 | Applies to S-6250 abated by A0630 and A0631 Limits apply to non-methane HC emissions | Y | |
| 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 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) | | |

IVH. Source-Specific ~~Generally~~ 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 |
|------------------------------------|--|-----------------------------|-----------------------|
| 8-1-320 | 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 (9/16/98) | | |
| 8-16-118 | Limited Exemption, Compounds with Low Volatility | N | |
| 8-16-303 | Cold Cleaner Requirements | N | |
| 8-16-303.1 | General Operating Requirements | N | |
| 8-16-303.1.1 | Maintain Proper Working Order | Y | |
| 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 | N | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick-up | N | |
| | | | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | N | |
| 8-16-303.1.6 | Solvent Spray Requirements | N | |
| 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 | N | |
| 8-16-303.3.1 | Container | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | N | |
| 8-16-303.3.3 | Used Solvent Returned to Container | N | |
| 8-16-303.3.4 | Label Stating Operating Requirements | Y | |
| 8-16-501 | Solvent Records | N | |
| SIP Regulation 8 Rule 16 | Organic Compounds – Solvent Cleaning Operations (6/15/94) | | |
| 8-16-303 | Cold Cleaner Requirements | Y | |
| 8-16-303.1 | General Operating Requirements | Y | |
| 8-16-303.1.4 | Waste Solvent Disposal | Y | |

IVH. Source-Specific ~~Generally~~ 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 |
|-------------------------|---|-----------------------------|-----------------------|
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | Y | |
| 8-16-303.1.6 | Solvent Spray Requirements | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | Y | |
| 8-16-303.3.3 | Used Solvent Returned to Container | Y | |
| 8-16-501 | Solvent Records | Y | |
| 8-16-501.2 | Facility-wide Quarterly Solvent Usage 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
 Source-specific Applicable Requirements**

Fugitive Components Applicability Matrix

| Process Unit | BAA QMD Regulation 8-28 | BAA QMD Regulation 8-18 | NSPS Part 60, Subpart GGG; BAA QMD Regulation 10-59 | NSPS Part 60, Subpart VV; BAA QMD Regulation 10-52 | NESHAP Part 61, Subpart J | NESHAP Part 61, Subpart FF; BAA QMD Regulation 11-12 | NESHAP Part 61, Subpart V; BAA QMD Regulation 11-7 | NESHAP Part 63, Subpart CC | BAA QMD Condition #8869 |
|---------------------------|-------------------------|-------------------------|---|--|---------------------------|--|--|----------------------------|-------------------------|
| 101-FCC Reactor | | x | x | x | | | | x | x |
| 102-MTBE Plant | | x | x | X | | | | x | |
| 104-FCC Gas Recovery Unit | | x | x | X | | | | x | |
| 105-FCC H2S Removal | | x | | | | | | | x |
| 106-FCC Caustic Treating | | x | | | | | | x | x |

IVH. Source-Specific ~~Generally~~ 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 VV; BAAQMD Regulation 10-52 | NESHAP Part 61, Subpart J | NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12 | NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7 | NESHAP Part 63, Subpart CC | BAAQMD Condition #8869 |
|-----------------------------------|------------------------|------------------------|--|---|--|---|---|----------------------------|------------------------|
| 107-FCC CO Boiler and Misc | | x | | | | | | | x |
| 108-Delsobutanizer | | x | x | x | | | | x | x |
| 110-Propylene Polymer | | x | | | | | | | |
| 120-Pole Yard Tanks | | x | | | x applicable components – only – Benzene service | | x applicable components – only – Benzene service | x | |
| 121-LPG Spheres & Racks | | x | | | | | | | |
| 127-Sulfur Recovery Unit | | x | | | | | | | |
| 135/136 C5 SHU/TAME Plant | | x | x | x | | | | x | x |
| 137-H2SO4 Alkylation – new | | x | x | x | | | | x | x |
| 305-Boiler Shop Furnace | | x | | | | | | | |
| 401-Solvent Deasphalting (SDA) | | x | x | x | | | | x | |
| 402-H2 Mfg. Plant A & B Train | | x | | | | | | | |
| 403-TKC Reaction/Distillation | | x | x | x | | | | x | |
| 404-TKN Reaction | | x | | | | | | x | |
| 405-IsoCracking Reaction | | x | | | | | | x | |
| 406-Iso Distillation/Gas Recovery | | x | | | | | | x | |
| 407-NH3-H2S Recovery | | x | | | | | | | |
| 408-Isomax H2 Booster | x | x | | | | | | | |
| 409-Isomax Tar Stripper | | x | | | | | | | |

IV.H. Source-Specific ~~Generally~~ 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 VV; BAAQMD Regulation 10-52 | NESHAP Part 61, Subpart J | NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12 | NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7 | NESHAP Part 63, Subpart CC | BAAQMD Condition #8869 |
|------------------------------------|------------------------|------------------------|--|---|--|---|---|----------------------------|------------------------|
| 410-Misc Utilities | | x | | | | | | | |
| 412-4 H2S Plant | | x | | | | | | | |
| 413-Flare Gas Recovery | | x | | | | | | | |
| 414-RLOP LNC Plant | | x | | | | | | x | |
| 415-RLOP LNC Distillation Section | | x | x | x | | | | x | |
| 416-RLOP LNHF Plant | | x | | | | | | x | |
| 417-RLOP HNC Plant | | x | | | | | | x | |
| 418-RLOP HNC Distillation Section | | x | | | | | | x | |
| 419-RLOP HNHF Plant | | x | x | x | | | | x | |
| 420-RLOP LNHF Distillation Section | | x | x | x | | | | x | |
| 421-RLOP No 2 NH3-H2S Removal | | x | x | x | | | | x | |
| 422-RLOP Gas Recovery Unit | | x | x | x | | | | x | |
| 423-H2 Recovery Unit | | x | x | x | | | | | x |
| 425-RLOP Flares | | x | | | | | | | |
| 429-H2S Mfg. Plant B Train | | x | | | | | | | |
| 708-Wax Rerun | | x | | | | | | x | |
| 710-No 2 Wax Deoiler | x | x | | | | | | x | |
| 712-Thermoform Kiln | | x | | | | | | | |
| 906-No 4 Rheniformer | | x | | | x applicable components – only – Benzene service | | x applicable components – only – Benzene service | x | |
| 950-Jet Hydrotreater | | x | | | | | | x | |

IV.H. Source-Specific ~~Generally~~ 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 VV; BAAQMD Regulation 10-52 | NESHAP Part 61, Subpart J | NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12 | NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7 | NESHAP Part 63, Subpart CC | BAAQMD Condition #8869 |
|-----------------------------------|------------------------|------------------------|--|---|--|---|---|----------------------------|------------------------|
| 951-Naptha Hydrotreater | | x | | | x applicable components – only – Benzene service | | x applicable components – only – Benzene service | x | |
| 952-No 5 Rheniformer | | x | | | | | | 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 | x | |
| 956-Diesel Hydrotreater | | x | x | x | | | | x | |
| 957-LSFO Utilities | | x | | | | | | x | |
| 962-Penhex Isomerization | | x | x | x | x applicable components – only – Benzene service | | x applicable components – only – Benzene service | x | x |
| 966-Naptha Splitter | | x | x | x | | | | x | |
| 967-Reformate Splitter | | x | x | x | x applicable components – only – Benzene service | | x applicable components – only – Benzene service | x | |
| 969-Caustic Scrubber | | x | x | x | | | | | |
| 1001-Util Gen | x | | | | | x applicable components – only-FF service | | | |
| 1002-No 1 Power Plant | x | x | | | | | | | |

IV.H. Source-Specific ~~Generally~~ 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 VV; BAAQMD Regulation 10-52 | NESHAP Part 61, Subpart J | NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12 | NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7 | NESHAP Part 63, Subpart CC | BAAQMD Condition #8869 |
|---|------------------------|------------------------|--|---|---------------------------|---|---|----------------------------|------------------------|
| 1007-Cogen 1000 Train | | x | | | | | | | |
| 1008-Cogen 2000 Train | | x | | | | | | | |
| 1010-Cogen Utilities | | x | | | | | | | |
| 1603-No 1 Pump Station | | x | | | | | | x | |
| 1604- Office & Main Tank Area, 2 & 7 Pump Station | | x | | | | | | x | |
| 1611-RPH – Shore Tank Area | x | x | | | | | | x | |
| 1615-RPH-Ethyl Plant | | x | | | | | | x | |
| 1617-RPH-General | | x | | | | | | x | |
| 1618-RPH-21 Pump Station | | x | | | | | | x | |
| 1619-RPH- 21A Pump Station | | x | | | | | | x | |
| 1620-RPH-SP Hill, 13 Pump Station | | x | | | | | | x | |
| 1621-RPH-SPMain Tank Field/Ethyl Roads | | x | | | | | | x | |
| 1622-RPH-W. Main/Bldg., 18 Pump Station | | x | | | | | | x | |
| 1624-RPH-Ethyl/Standard Roads, 17 Pump Station | x | x | | | | | | x | |
| 1626-CPH-Quarry Tanks, 8 Pump Station | | x | | | | | | x | |
| 1627-CPH-Separators, 24 Pump Station | | x | | | | | | x | |

IV.H. Source-Specific ~~Generally~~ 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 |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 18 | Organic Compounds-Equipment Leaks (3/18/98) | | |
| 8-18-100 | General/Applicability | Y | |
| 8-18-200 | Definitions | Y | |
| 8-18-301 | General Standard | Y | |
| 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 | |
| 8-18-307 | Liquid Leaks | Y | |
| 8-18-308 | Alternate compliance | Y | |
| 8-18-401 | Inspection | Y | |
| 8-18-402 | Identification | Y | |
| 8-18-403 | Visual inspection schedule | Y | |
| 8-18-404 | Alternate inspection schedule | Y | |
| 8-18-405 | Alternate inspection reduction plan | Y | |
| 8-18-406 | Interim Compliance | Y | |
| 8-18-501 | Portable Hydrocarbon Detector | Y | |
| 8-18-502 | Records | Y | |
| BAAQMD Regulation 8 Rule 28 | Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98) | | |
| 8-28-100 | General/Applicability | N | |
| 8-28-200 | Definitions | 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 | N | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | N | |
| 8-28-402 | Inspection | N | |
| 8-28-403 | Records | N | |
| 8-28-404 | Identification | N | |

IV.H. Source-Specific ~~Generally~~ 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 | N | |
| SIP Regulation 8 Rule 28 | Pressure Relief Valves at Petroleum Refineries and Chemical Plants (6/15/94) | | |
| 8-28-100 | General/Applicability | Y | |
| 8-28-200 | Definitions | Y | |
| 8-28-301 | Pressure Relief Valve | Y | |
| 8-28-401 | Reporting | Y | |
| 8-28-402 | Inspection | Y | |
| 8-28-403 | Records | Y | |
| 8-28-404 | Identification | Y | |
| NSPS Part 60 Subpart GGG; BAAQMD Regulation 10-59 | Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (5/30/84); BAAQMD Standards of Performance for New Stationary Sources (4/19/89) | | |
| 40 CFR 60.590 | Applicability | Y | |
| 60.591 | Definitions | Y | |
| 60.592 | Subject to provisions of Part 60, Subpart VV | 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 (7/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95) [see Wastewater Cluster 20q for QQQ exemption requirements] | | |
| BAAQMD Regulation 10 Rule 69 | Incorporates by reference 40 CFR 60 Subpart QQQ | 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|--|--|-----------------------------|-----------------------|
| 60.693-2 | Alternative standards for oil water separators | Y | |
| NSPS Part 60 Subpart VV; BAAQMD Regulation 10 Rule 52 | Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (8/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95) | | |
| 60.480 | Applicability | Y | |
| 60.481 | Definitions | Y | |
| 60.482-1 | General Standards | Y | |
| 60.482-2 | Pump Standards: | | |
| 60.482-2(a)(1) | Monthly monitoring of each pump, except for 60.482-1©, 60.482-2(d), (e), or (f) | Y | |
| 60.482-2(a)(2) | Weekly visual inspection of each pump, except for (e), (f), or (g) | Y | |
| 60.482-2(b) | Air measurement >10,000 ppm or dripping liquid indicates leak | Y | |
| 60.482-2© | 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 | |
| 60.482-3 | Compressor Standards | Y | |
| 60.482-4 | 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 | Requirements for Sampling connecting systems | Y | |
| 60.482-6 | Requirements for Open-ended valves or lines | Y | |
| 60.482-7 | Valve Standards: | | |
| 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 | 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 | |
| 60.482-8 | Pumps and Valves in heavy liquid service, pressure relief devices in light and heavy liquid service and flanges and other connectors | Y | |

IVH. Source-Specific ~~Generally~~ 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(a) | 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 | Y | |
| 60.482-9(b) | Repair may be delayed for isolated equipment | Y | |
| 60.482-9© | Delay of repair for valves is only allowed under certain circumstances | Y | |
| 60.482-9(d)(1) | Only dual-mechanical seal pumps qualify for delay of repair | Y | |
| 60.482-9(d)(2) | Pump leaks must be repaired as soon as practicable, but within 6 months | Y | |
| 60.482-10 | Requirements for Closed-vent systems and control devices | Y | |
| 60.482-10© | Combustion devices $\geq 95\%$ destruction efficiency or ≥ 0.75 seconds and $\geq 816^\circ\text{C}$ | Y | |
| 60.482-10(g) | 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) | Y | |
| 60.483-1 60.483-2 8-18-404.1 | 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 | |
| 60.485 | Test Methods and Procedures | Y | |
| 60.486 | Record Keeping | Y | |
| 60.487 | Reporting | Y | |
| BAAQMD Regulation 10 Rule 52 | Incorporates by reference 40 CFR 60 Subpart VV | Y | |
| NESHAP Part 61 Subpart J | National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene (6/6/84) | | |
| 61.110 | Applicability | Y | |
| 61.111 | Definitions | Y | |
| 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 (3/7/90); BAAQMD National Emission Standard for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (4/19/89) | | |
| 61.340 | Applicability | Y | |
| 61.341 | Definitions | 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|--|--|-----------------------------|-----------------------|
| 61.349(a)(1)(i) | Closed vent system designed to operate with no detectable emissions (<500 ppm). | Y | |
| 61.349(a)(1)(ii) | Vent systems that contain any bypass line that could divert the vent stream away from a control device used to comply with this subpart shall install, maintain, and operate according to manufacturer's specifications a flow indicator that measures the vent stream flow at least once every 15 minutes, except as provided in (a)(1)(ii)(B). | 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 flares compliance for flares | Y | |
| 61.349(e) | Administrator ion may request demonstration of control device at any time | Y | |
| 61.349(f) | Each closed-vent system and control device shall be inspected quarterly. | 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 | 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 Part 61 Subpart V; BAAQMD Regulation 11 Rule 7 | National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84); Hazardous Pollutants: Benzene (3/6/85) | | |
| 40 CFR 61.240 | Applicability: VHAP service | Y | |
| 61.241 | Definitions | Y | |
| 61.242-1 | General Standards | Y | |
| 61.242-2 | Pump Standards | | |
| 61.242-2(a)(1) | Monthly monitoring of each pump, except for 61.242-2(d), (e), or (f) | Y | |

IV.H. Source-Specific ~~Generally~~ 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 |
|------------------------|--|-----------------------------|-----------------------|
| 61.242-2(a)(2) | Weekly visual inspection of each pump, 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 © | Pump leak repair period | Y | |
| 61.242-2(d) | Requirements for Dual-Mechanical seal pump | Y | |
| 61.242-2(e) | No detectable emission designation: <500 ppm | Y | |
| 61.242-2(f) | Requirements for Closed Vent Systems | Y | |
| 61.242-2(g) | I For If unsafe to monitor sites, monitor as frequently as practicable. | Y | |
| 61.242-2(h) | Monthly visual inspections for un-manned sites | Y | |
| 61.242-3 | Compressor Standards | Y | |
| 61.242-4 | Requirements for Pressure Relief 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 Sampling connecting systems | Y | |
| 61.242-6 | Requirements for Open-ended valves or lines | Y | |
| 61.242-7 | Valve Standards | | |
| 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. ©(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 | 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 requested by the Administrator | Y | |
| 61.242-7(g) | Allows relief from 61.242.7(a) monitoring if designated as unsafe-to-monitor | Y | |
| 61.242-8 | Pressure Relief Devices in liquid service and Flanges and other Connectors Standards | Y | |
| 61.242-8(a) | 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 | Y | |
| 61.242-9 | Product accumulator vessels shall be equipped with a closed-vent system and control device | Y | |
| 61.242-10(b) | Repair may be delayed for isolated equipment | Y | |
| 61.242-10© | Delay of repair for valves is only allowed under certain circumstances | Y | |

IV.H. Source-Specific ~~Generally~~ 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 |
|---|--|-----------------------------|-----------------------|
| 61.242-10(d)(1) | Only dual-mechanical 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 closed-vent systems and control devices | Y | |
| 61.242-11© | Combustion devices ≥95% destruction efficiency or ≥0.50 seconds and ≥760°C | Y | |
| 61.242-11(f) | 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) | Y | |
| 61.243-1, 61.243-2, and BAAQMD 8-18-404.1 | 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 | Y | |
| 61.247 | Reporting | Y | |
| BAAQMD Regulation 11 Rule 7 | General: Equipment must be uniquely marked | | |
| 11-7-100 | General/Applicability | N | |
| 11-7-200 | Definitions | 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 | |
| 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 | |

IVH. Source-Specific ~~Generally~~ 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 |
|----------------------------------|---|-----------------------------|-----------------------|
| NESHAP Part 63 Subpart CC | National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries | | |
| 63.640(a) | Applicability | Y | |
| 63.641 | Definitions | Y | |
| 63.642(e) | Keep records for 5 years | Y | |
| 63.648(a) | Equipment leak standards. 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© | Alternate requirements | Y | |
| 63.648(d) | New sources | Y | |
| 63.648(e) | Reciprocating pumps in heavy liquid service | Y | |
| 63.648(f) | Reciprocating pumps in light liquid service | Y | |
| 63.648(g) | Compressors in hydrogen service | Y | |
| 63.648(h) | Records | Y | |
| 63.648(i) | Reciprocating compressors exemption | Y | |
| 63.649 | Alternate means of emission limitation | Y | |
| 63.654(d) | Recordkeeping and reporting | Y | |
| Condition #8869 | Applies to S-32103 | Y | |

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth

S-4410, S-4424

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8 Rule 1 | Organic Compounds – General Provisions (11/4/98) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth

S-4410, S-4424

| 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 (5/15/96) | | |
| 8-4-302 | Solvents and Surface Coating Requirements | N | |
| 8-4-302.1 | Emissions less than 5 tons per year | N | |
| 8-4-302.2 | Abatement ≥ 85% | N | |
| 8-4-302.3 | VOC ≤ 3.5 lb/gal | N | |
| 8-4-312 | Solvent Evaporation Loss Minimization | N | |
| 8-4-312.1 | Storage and Disposal of Solvent Impregnated Cloth or Paper | N | |
| 8-4-312.2 | No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used | N | |
| 8-4-312.3 | Closed Containers for Spent or Fresh Organic Solvents | N | |
| 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 and Solvent Used | Y | |
| 8-4-501.3 | Daily Recording of Key System Operating Parameters | Y | |
| 8-4-501.4 | Records Retention | Y | |
| SIP Regulation 8 Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (12/20/95) | | |
| 8-4-302 | Limitation on Solvents and Surface Coatings | Y | |
| BAAQMD Regulation 8 Rule 19 | Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (12/20/95) | | |
| 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 | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth

S-4410, S-4424

| 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 | |
| 8-19-407 | 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 (12/20/95) | | |
| 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 | |
| 8-31-320.3 | Closed Containers for Coatings or Solvents Not in Use | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth

S-4410, S-4424

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|------------------------------------|------------------------------|
| 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 (06/19/96) | | |
| 8-32-111 | Exemption, 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 | 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 | |
| 8-32-305 | Prohibition of Specification | Y | |
| 8-32-307 | Alternative Compliance, Section 8-32-302 | 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 | Closed Containers for Stripper, Coating, Adhesive, Catalyst or Thinner | Y | |
| 8-32-403 | Extreme Environmental Conditions Petition | N | |
| 8-32-404 | Alternative Compliance Petition and Approval | N | |
| 8-32-501 | Records | N | |
| 8-32-501.1 | Maintain Data Necessary to Evaluate Compliance | N | |
| 8-32-501.2 | Daily Coating Usage Records | Y | |

IVH. Source-Specific ~~Generally~~ Applicable Requirements

**Table IV.H.3.1 VOC Sources
 Source-specific Applicable Requirements**

Paint Booth

S-4410, S-4424

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| 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) | | |
| 8-32-111 | Exemption, Small coating operations | Y | |
| 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 | |
| 8-32-402 | 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 | | |
| 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 | |

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~~

Milestones

~~By 1/11/04:~~

~~The owner/operator of S-3100 shall complete application #8452 by no later than 1/11/04.~~

~~By 3/11/04:~~

~~The owner/operator of S-3100 shall comply with throughput limits established in application #8452 by no later than 3/11/04.~~

Reporting Requirements

~~Progress reports shall be submitted on the last day of every month to the Director of Enforcement until the above actions are completed. The progress reports shall contain the dates by which each item in the plan was achieved and an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.~~

VI. PERMIT CONDITIONS

Condition #469

For S-4038 to S-4046, S-4059 to S-4062, S-4068 to S-4072, S-4093 to S-4095, 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-4262, S-4265, 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-6017, 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. Conditions #16393 and #16698 are considered part of or linked to these conditions. **The basis of this refinery-wide cap condition is “Bubble”.** Per Appendix J, of Authority to Construct Number 27797,

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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

**CHEVRON REFINERY CAP
PERMIT CONDITIONS
APPLICATION #27797
LAST REVISED 7/2/97, A/N 16876
Revised per A/N 19972, A/N 4134**

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.

60.□-□ Refinery Only:

| | |
|--------------|----------------|
| Particulates | 281.1 ton/yr |
| Hydrocarbons | 326.3 ton/yr |
| NOx | 5,772.0 ton/yr |
| SO2 | 392.0 ton/yr |
| CO | 723.5 ton/yr |

60.□-□ Wharf and Refinery:

| | |
|--------------|----------------|
| Particulates | 326.0 ton/yr |
| Hydrocarbons | 391.1 ton/yr |
| NOx | 6,151.0 ton/yr |
| SO2 | 918.0 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 ~~0.0~~ 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

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

such increased lightering emissions cause the
-0.0 糖 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.

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:

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

| | 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.

60.□-□ 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 |
| SO2 | 75.5 ton/mo |
| CO | 113.6 ton/mo |

60.□-□ 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 |
| SO2 | 84.1 tons |
| CO | 70.9 tons |

60.□-□ 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

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upward

or downward pursuant to the provisions of Section 9 below.

Alternative Emission Limitations

The following conditions apply when the emission limits set forth in Section 1 above are exceeded.

If any of the annual emission limits of Section 1.A or 1.B are exceeded, the following conditions shall apply:

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);

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

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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If any of the monthly maximum emission limits of Section 1.C are exceeded, the following conditions shall apply:

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;

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

Chevron shall not process more than 303,000 barrels of crude oil per stream day, or more

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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.

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.

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.

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:

60.□-□ How the reduction will be achieved;

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- 60.□-□ When the permit application will be submitted;
- 60.□-□ When the on-site construction will be completed;

and

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.

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.

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.

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

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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.

Monitoring

The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Chevron in accordance with the District's Manual of Procedures.

An instrument to continuously monitor nitrogen oxide

emissions in the flue gas from each SCR unit.

An instrument to continuously monitor the percentage

of oxygen in the flue gas from each SCR Unit.

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.

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.

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

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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.

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:

- 60.□-□ Crude oil processed
- 60.□-□ EFOB of each fuel burned
- 60.□-□ Number and vessel class
- 60.□-□ Lightering
- 60.□-□ Emissions

- 60.□-□ 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) | 15,500 BPOD |
| Light Neutral Hydrofinisher(S-4341) | 19,000 BPOD |
| Heavy Neutral Hydrocracker(S-4342) | 20,000 BPOD |
| Heavy Neutral Hydrofinisher(S-4343) | 8,000 BPOD |

TKC Unit (Changed from 52K BGY 3/1/95) 65,000 BPOD

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.

60.□-□ Combustion

60.□-□ Fuel oil shall not be burned at the refinery.

60.□-□ 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.

60.□-□ Deleted on August 10, 1993 (by Mr. John Swanson).

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60.□-□ 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.

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 332 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 |
| S-4338 | F-1550 | 864.0 | 36.0 |
| S-4339 | F-1110 | 456.0 | 19.0 |
| S-4349 | F-1650 | 264.0 | 11.0 |

The firing rate limits used above are expressed in terms of Higher Heating Value (HHV). When using Apendix 1 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 30 ppmv, dry, corrected to 3 % oxygen, averaged over 3 hours.

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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'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).

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60.□-□ Access

60.□-□ 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.

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.

Enforcement

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.

60.□-□ Miscellaneous

60.□-□ 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.

- 60.□-□ #1 RPM Plant
- 60.□-□ #2 RPM Plant

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- 60.□-□ #1 Lube Rerun Plant
- 60.□-□ #2 Lube Rerun Plant

60.□-□ Nothing in the above conditions shall be construed to permit termination of the existing conditions of the Number 4 LSFO crude unit.

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.

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.

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.

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

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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.

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

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

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be, by an amount equivalent to the net cumulative increase or decrease being transferred.

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.

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.

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.

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

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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.

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, such information shall be

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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):

Fuel usage at the F-410 furnace (S-4159) shall not exceed 43 MMBtu/hr averaged over any consecutive 12 month period.

Fuel usage at the F-420 furnace (S-4160) shall not exceed 41 MMBtu/hr averaged over any consecutive 12 month period.

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:

The smokeless capacity of S-6015, Thermal Flare, shall not be less than 240,000 pounds per hour. (Reasonably Available Control Technology)

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

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per hour. (Reasonably Available Control Technology)

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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:

- 60.□-□ One instrument to continuously monitor nitrogen oxide emissions in the flue gas from each SCR Unit.
- 60.□-□ One instrument to continuously monitor the percentage of oxygen in the flue gas from each SCR Unit.

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- 60.□-□ 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.
- 60.□-□ One flow meter to monitor Alkane compressor natural gas consumption.
- 60.□-□ One flow meter to monitor natural gas blanketing at Alkane.
- 60.□-□ 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.

60.□-□ **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:

- 60.□-□ Convert all values to SCF/D.
- 60.□-□ The conversion factor to BTU/SCF will vary monthly, as reported by PG&E.
- 60.□-□ 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.
- 60.□-□ **Boilers**
- 60.□-□ **Fuel Oil**

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The following entries in the Products Burned Statement shall be used to monitor fuel oil to boilers:

- 60.□-□ S.O. #103 – No. 1 Power Plant (EFOB/MO)
- 60.□-□ S.O. #150 – No. 2 Steam Plant (EFOB/MO)
- 60.□-□ 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:

- 60.□-□ T-241
- 60.□-□ 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:

- 60.□-□ The conversion to EFOB will vary daily as determined by the API Gravity Meter on the fuel oil system.
- 60.□-□ Assume 6,000,000 net BTU/EFOB.
- 60.□-□ Refer to the appropriate emission factors in Appendix I, Section A-1.
- 60.□-□ Fuel Gas

The following entries in the Products Burned Statement shall be used to monitor fuel gas to boilers:

- 60.□-□ S.O. #103 – No. 1 Power Plant (EFOB/MO)
- 60.□-□ S.O. #811 – Boiler Plant (EFOB/MO)
- 60.□-□ 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 |

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No. 1 PP G54 Fuel Gas to No. 1 PP

SCF/D

To calculate emissions:

- 60.□-□ Convert all values to SCF/D.
- 60.□-□ The conversion factor to EFOB will vary daily, as determined by the specific gravity analysis on each fuel gas system.
- 60.□-□ 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).
- 60.□-□ Assume 6,000,000 net BTU/EFOB.

60.□-□ Furnaces

60.□-□ Fuel Oil

The following entries in the Products Burned Statement shall be used to monitor fuel oil to furnaces:

- 60.□-□ S.O. #210 – Asphalt Plant
- 60.□-□ S.O. #281 – #4 Crude Unit
- 60.□-□ S.O. #282 – Mid Distillate Hydrofiner
- 60.□-□ S.O. #270 – #4 Cat. Reformer
- 60.□-□ S.O. #285 – #5 Catalytic Reformer
- 60.□-□ S.O. #286 – Vacuum Gas Oil Unit
- 60.□-□ S.O. #309 – #11-1 Battery
- 60.□-□ S.O. #810 – Prop-Polymer Unit
- 60.□-□ S.O. #303 – #3 Battery
- 60.□-□ S.O. #848 – Isomax General
- 60.□-□ S.O. #857 – TKN-Iso Unit
- 60.□-□ S.O. #415 – Phenol Treating
- 60.□-□ S.O. #306 – #10 Battery
- 60.□-□ S.O. #310 – #11-2 Battery
- 60.□-□ S.O. #853 – SDA Unit
- 60.□-□ S.O. #326 – Resid. Stripper

These entries shall be determined from daily tank gauge readings for the following tanks:

- 60.□-□ T-241
- 60.□-□ T-242
- 60.□-□ T-907
- 60.□-□ T-908

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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:

- 60.□-□ Assume 6,000,000 net BTU/EFOB
- 60.□-□ Refer to the appropriate emission factors in Appendix I, Section A-1.

60.□-□ Fuel Gas

60.□-□ Existing Furnaces

Refer to the “Grand Total” on the Products Burned Statement. Subtract from this value the following:

- 60.□-□ Billings – S.O. #3000 (total material & supply).
- 60.□-□ Compressors – Amount in Section B-1 above.
- 60.□-□ Blanketing – Amount in Section B-4.
- 60.□-□ Flares – 1,033 EFOB/month, a constant (total for all flares).
- 60.□-□ Boilers – Amount in Section B-2-b above.
- 60.□-□ CO Boiler – S.O. #843 on Products Burned Statement.
- 60.□-□ FCC Unit – S.O. #840 on Products Burned Statement.
- 60.□-□ New RLOP Furnaces & RLOP Gas Blanketing- Hard charge meter.
- 60.□-□ Coal Liquifaction – Hard charge meter.
- 60.□-□ Coal Liquifaction – Fuel gas consumed in H2 plant to produce H2.

To calculate emissions:

- 60.□-□ Convert the value to SCF/D.
- 60.□-□ The conversion to BTU/SCF will change daily.
- 60.□-□ 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.

60.□-□ New Furnaces

Ten new flow meters shall be installed to determine the amount of fuel gas being directed to the new furnaces. Emission

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

calculations for TSP and organics will be the same as for existing furnaces (AP-42 emission factors).

Emission for NOx shall be determined by monitoring the fuel gas rate and percent O2 to determine a volumetric flow. Knowing the flow and ppm NOx, 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.

60.□-□ 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:

60.□-□ Assume 4,935,000 net BTU/BBL.

60.□-□ Refer to the appropriate emission factors in Appendix I, Section A-3.

60.□-□ 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 | |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

To calculate emissions:

60.□-□ Convert this result to SCF/D.

60.□-□ 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.

60.□-□ 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:

60.□-□ Convert to SCF/Day.

60.□-□ 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

60.□-□ 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 |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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.

60.□-□ 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.

Emissions are calculated as follows:

- 60.□-□ Total the crude oil throughput.
- 60.□-□ Assume desalter water is 5% of crude oil throughput.
- 60.□-□ 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

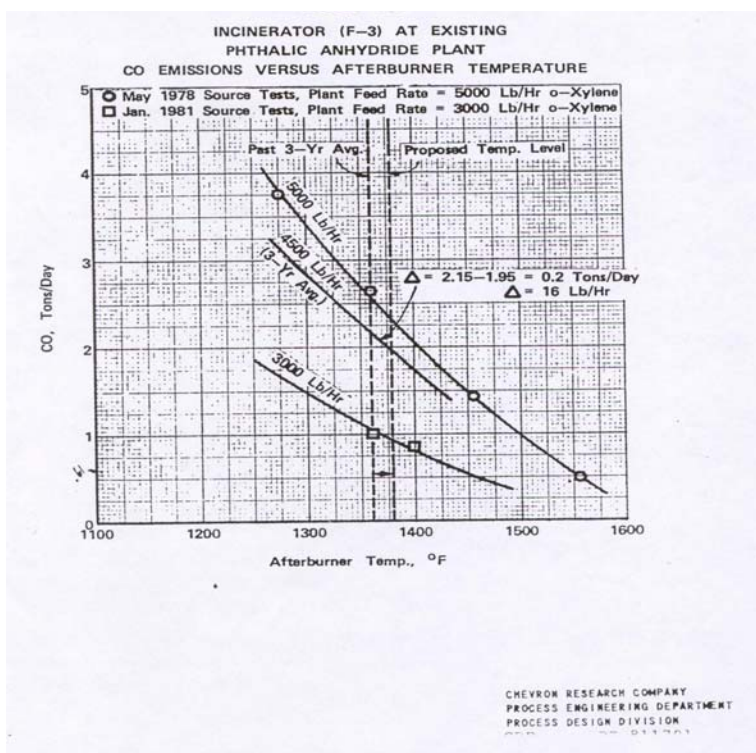
The CO emissions from the Phthalic Anhydride Plant CO Boiler shall be calculated from the following data:

- 60.□-□ 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.
- 60.□-□ 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.
- 60.□-□ 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."

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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:

- 60.□-□ Stack gas PPM SO₂
- 60.□-□ Stack flow rate
- 60.□-□ Stack temperature
- 60.□-□ SO₂ analyzer range
- 60.□-□ 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.

APPENDIX F MISCELLANEOUS COMBUSTION EMISSIONS

Asphalt Plant Blowing Operation

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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:

- 60.□-□ Roofers Shingle Saturant
- 60.□-□ Roofers Shingle Coating
- 60.□-□ FG #1 and LAM #1
- 60.□-□ FG #2 (Fiberglass 2A)
- 60.□-□ Laminating Asphalt
- 60.□-□ Tab Adhesive
- 60.□-□ Roofers Flux
- 60.□-□ Roofers Cut-Back #3
- 60.□-□ Chevron Utility Coating
- 60.□-□ Chevron Asphalt Coating
- 60.□-□ Asbestos Roof Coating Base
- 60.□-□ 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.

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:

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

APPENDIX G

**TABLE I. MOTOR SHIP
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

| Motor Ship Size | Maneuver (Transit) (Diesel) Gal/hr | Hoteling (Fuel Oil) Gal/hr | (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).

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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).

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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 Galvaston (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 |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

APPENDIX G

**TABLE IV. TUG ASSIST
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

| | Fuel Consumed (Diesel (Gal/hr)) |
|---------------------------------------|------------------------------------|
| Tug Assist for Ship \leq 50 MDWT | 65.56 |
| Tug Assist for Ship $>$ 50 MDWT | 131.12 |
| Tug Assist for Barge \leq 100 MBBLs | 65.56 |
| Tug Assist for Barge $>$ 100 MBBLs | 131.12 |

WHARF MODEL ASSUMPTIONS AND/OR ESTIMATES:

- 60.□-□ Tug assist times are fixed for each vessel movement.
- 60.□-□ 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
- 60.□-□ Hoteling emissions from ships at wharfs calculated from actual wharf time.
- 60.□-□ Hoteling emissions from vessels away from wharfs are not counted except when lightering.
- 60.□-□ Mother ship can only lighter to one ship or barge at a time.
- 60.□-□ Turbo electric ships fuel use equals same-sized steam ship fuel use.
- 60.□-□ Emissions from ballasting not included.
- 60.□-□ 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.

IVIII. Permit Conditions ~~Source-Specific~~ Generally Applicable Requirements

APPENDIX H

60.□-□ **Combustion Emissions**

60.□-□ **Tug Assist Emissions**

$$\text{Tug Assist Emissions} = \frac{\text{Tug Assist Time (hrs/call)}}{\text{(lbs pollutant/call)}} \times \frac{\text{Fuel Consumption (Table IV) (gal/hr) (Appen. G)}}{\text{(lb/gal)}} \times \text{Factor (Appen. I, Table E)}$$

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) | |

60.□-□ **Transit Emissions (Ships Only)**

$$\text{Transit Emissions} = \frac{\text{Transit Time (hrs/call)}}{\text{(lbs pollutant/call)}} \times \frac{\text{Fuel Consumption (Appen. G Tables I, II, III, gal/hr)}}{\text{(lb/gal)}} \times \text{Factor (Appen. I, Table E)}$$

Transit Time Per Call

| | |
|---|-------|
| Tanker | 6 hrs |
| Lighter Tanker | 4 hrs |
| (Add 1 hr if vessel went to Pt. Orient Wharf) | |

60.□-□ **Hoteling Emissions (Ships Only)**

$$\text{Hotel Emissions} = \frac{\text{Hotel Time (hrs)}}{\text{(lbs pollutant/call)}} \times \frac{\text{Fuel Consumption (Appen. G, Tables I, II, III, gal/hr)}}{\text{(lb/gal)}} \times \text{Factor (Appen. I, Table E)}$$

$$\text{Hotel Time} = \text{Dock hrs} + \left[\frac{\text{Lightered Quantity (bbls)}}{\text{**Lighter Rate (bbls/hr)}} + 2 \text{ hrs} \right]^*$$

*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

60.□-□ **Pumping Emissions (Discharge Only)**

$$\text{Pump Emissions} = \frac{\text{Pumped Quantity (Mbbls)}}{\text{(lbs pollutant/call)}} \times \frac{30 \text{ gal. Fuel consumed}}{\text{Mbbls pumped}} \times \text{Factor (Appen. I, Table E, lb/gal)}$$

60.□-□ **Minas Crude Heating Emissions**

$$\text{Minas Heating Emissions} = \frac{\text{Minas Discharged (Mbbls)}}{\text{(lbs pollutant/call)}} \times \left[\frac{\text{Dock Time} + 3 \text{ hrs}}{\text{(hrs)}} \right] \times \frac{.25 \text{ gal}}{\text{Mbbl hr}} \times \text{Factor (Appen. I, Table E) (F.O. Hoteling Factor)}$$

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

(lbs/al)

60.□-□ Loading or Lightering Volatile Organic Emissions

$$\text{Loading or Lightering Emissions} = \frac{\text{Quantity Loaded} \times (\text{Appen. I, Table F})}{(\text{lbs HC}) \quad (\text{Mbbls}) \quad (\text{lbs HC/Mbbl})}$$

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 |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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 | - | - | - |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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 |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

**APPENDIX I
 TABLE F
 HYDROCARBON EMISSIONS FROM ONLOADING 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:

- 60.□-□ Coal Liquefaction Pilot Plant (Chevron Research)
- 60.□-□ FCC
- 60.□-□ Nitric Acid Plant
- 60.□-□ Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units’ shutdown).
- 60.□-□ Valves
- 60.□-□ Pump and compressor seals
- 60.□-□ Cooling towers
- 60.□-□ Drains
- 60.□-□ Tankage

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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.

| | | |
|--------|----------------------------|----------|
| 60.□-□ | 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. |
| 60.□-□ | Pump Seals | |
| 60.□-□ | | RVP >0.5 |
| | Mechanical | 35 ea. |
| | Packing | 1 ea. |
| 60.□-□ | | RVP <0.5 |
| | Mechanical | 33 ea. |
| | Packing | 4 ea. |
| 60.□-□ | Compressor Seals | |
| | H2 Service (>50%) | 17 ea. |
| | HC Service | 11 ea. |
| 60.□-□ | 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

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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.

5.

Condition #710, #711, and #712

For S-9304, GASOLINE DISPENSING FACILITY, G6042:

Condition 710 -----

*1. To reduce flowrate between 8 to 8.6 gallons per minute, a flow limiter shall be permanently installed when using Emco-Wheaton nozzles. (basis: (cumulative increase)

Condition 711 -----

*1. Vapor flowrate to Hirt processor shall not exceed 17.2 gallons per minute. (basis: (cumulative increase)

Condition 712 -----

*1. To measure gauge pressure, a magnahelic shall be permanently installed on the vapor line of the dispenser. (basis: cumulative increase)

Condition #1046

FOR S-3141:

- *1. Sulfur Storage Tank S-3141 shall be abated by the properly maintained and properly operated A-43 Venturi Scrubber at all times of operation, except during preventative maintenance at the A-43 Scrubber (basis: cumulative increase)
- *2. Downtime of the A-43 Scrubber shall be minimized to the extent practicable, and emissions from S-3141 shall be minimized to the extent practicable during periods of preventative maintenance. Additionally, liquid transfers into S-3141 shall be minimized during periods of preventative maintenance. In no event shall preventative maintenance downtime exceed 51 hours in any consecutive 30-day period. (basis: cumulative increase)
- *3. The owner/operator of S-3141 shall maintain records of preventative maintenance downtime 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)
- "(cumulative increase)

Condition #1162

For S – 4350 TO S-4353:

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1. The Brown Boveri Gas Turbines, Sources S-4350 & S-4352 shall be fired on natural gas or LPG only except as allowed below:
 - a. 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.
 - b. 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.
 - c. 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.
 - d. 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)

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:

3. 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 ~~which~~ 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 10-26, ~~Section 501~~. (basis: Regulation 10~~Rule 10-26-501~~)
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)
 -

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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. (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-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.%. (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. (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. (BACT/TBACT)

| Fitting Type | Control Technique |
|-----------------|----------------------------|
| Access hatch | Bolted cover, gasketed |
| Guide pole/Well | Slotted with a pole sleeve |

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(amended per AN 8452) 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. (BACT)

6. 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. (BACT)

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 that~~ are available to District personnel on short notice (rather than actual paper copies of

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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, 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:

- 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. (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)

Pertaining to DEBRU Operations:

- 60. - 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)
- 60. - 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)
- 60. - *Abated benzene emissions from S-3110, S-3111, and S-3192 combined shall not exceed 0.04 lb/day. (Note: 6/17/91 Source Test: 0.333 lbs/day) (basis: toxics)

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- 60. - *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)
- 60. - 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)
- 60. - 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)
- 60. - 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)
- 60. - 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)
- 60. - 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)
- 60. - 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)
- 60. - 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)
- 60.□-□ Deleted.
- 60.□-□ -Deleted.
- 60.□-□ Deleted.-

Condition #4714

For S – 9321 TO S-9325:

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: 8-44)

Owner/Operator shall install instrumentation to and record the following:

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Static pressure in the marine tank vessel,
dizer exhaust temperature,

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
ssurance of compliance, or

60. - Any other device that verifies compliance, with prior
approval from the APCO for 'he 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: 8-44)

60. - Deleted

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 "he purposes"of this condition,
""operational"" shall mean the system is achieving the
reductions required by Part No (basis: Rule 8, Rule 44)

The vapor recovery system shall be operated such that

the temperature of the exhaust from the incinerator is
greater than 1200oF after startup (basis: 8-44)

60. - Deleted.

Owner/Operator shall not exceed a loading pressure

greater than 80% of the lowest relief valve set pressure of
the vessel being loaded. 8-44)

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: -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: (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:

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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)

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)

60.□-□ Completed. “–

COND# 5599 -----

- The Abrasive Blasting Cabinet (S-4422) shall be vented to the properly operated and properly maintained dust collector (A-4422).

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)

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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)

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

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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) atant 10 (Construction Cancelled):

- 60.□-□ 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. (-asis: BACT)

**Condition #8180
For fugitive emissions a, Plant 10**

All fugitive emission components shall comply with the requirements of Regulations 8-18 or the following leak rates, whichever is more stringent. Concentrations are expressed as methane measured at 1 cm from the component.

(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:

Throughput at S-3197 shall not exceed 4,000,000 barrels

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during any consecutive twelve-month period. (basis: BACT)

60. - Deleted.

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)

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)
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)

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- 8-44 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)
60. - 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)

COND# 8773 -----

For fugitive emissions at S-4251, Plant 10:

- All 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

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available during these periods of maintenance and repair of the vent gas system. (cum inc)

- All pressure relief valves at S-4251 shall be vented to a flare gas recovery system. (cum inc)

For S-4155, Plant 10:

- 1. The NO_x emitted from S-4155 shall not exceed 8.85 lb/hour (averaged over any rolling 3-hour period). This NO_x 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. (cum inc)

The time of first burner lighting and last burner extinguishment shall be determined based on the NO_x CEM data and/or continuous hourly fuel flow data of S-4155. The first NO_x 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.

The NO_x mass rate shall be calculated as follows based on the concentration (ppm NO_x, 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:
$$\text{lb NO}_x/\text{hour} = [\text{ppm NO}_x](1 \text{ lb-mole}/386 \text{ scf})(46 \text{ lb NO}_2/\text{lb-mole NO}_2)(0.01077 \text{ dscf flue gas}/\text{BTU})[\text{million BTU}/\text{hour}]$$

- 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. (BACT)
- 3. S-4155 shall be equipped with a District-approved O₂ monitor and a District-approved continuous NO_x monitor.
- To confirm compliance with the NO_x and CO limits in conditions #1 and #2, respectively, and to verify the accuracy of the NO_x monitor required by condition #3, the owner/operator of S-4155 shall conduct a source

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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. (cum inc, BACT)

- 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. (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. (BACT)

-”Condition #8869

For S-32103:

- 1. The A-620 through 626 and A-414 Thermal Oxidizers shall have a minimum VOC destruction efficiency of 95% by weight, minimum of 1 sec residence time, and minimum of 1400 deg F oxidizer temperature. (basis: BACT)
- 2. Each Thermal Oxidizer shall have a continuous temperature monitor. Each pump duct shall have a continuous flow monitor. (basis: BACT)
- 3. Deleted.
- 4. The owner/operator shall monitor twice daily and record in a District approved log the temperature of each of the thermal oxidizers. 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: BACT)
- 5. Deleted.
- 6. Application #9978 (Cleaner Fuels Project – 1994) Fugitive Emission Condition(s):
Sources below are incorporated by reference from Application #9978 (Cleaner Fuels Project – 1994), Condition #13369 and must meet fugitive emission condition of this application. See S-32100 to S-32105 for explicit conditions on equipment type, and leak rate definitions. Sources subject to fugitive emission conditions for the Cleaner Fuels Project BAAQMD–A/C and PTO are:
 - S-4291 – H₂SO₄ Alkylation–Plant, 36000 BPD
 - S-4355 – Deisobutanizer/Butamer–Plant, 40000 BPD

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- S-4357 – C4 Treating–Plant, 22000 BPD
- S-4356 – TAME (Tertiary Amyl Methyl Ether)–Plant, 15000 BPD
- S-4285 – Fluid Catalytic Cracker– Unit, 80000 BPD
- S-4358 – FCC Gasoline Hydrotreater
- S-4348 – Hydrogen Recovery –Plant, 50 MMSCFD
- S-4282 – Aromatics Saturation Plant/Penhex Isomerization Plant.

The Sources Above shall comply with the following Fugitive Emission Condition after Cleaner Fuels Project completion: (basis: BACT)

7. Flanges shall be equipped with graphite based gaskets (Teflon-based for acid service), metal ring joints, or district approved equivalent technology. (basis: BACT)
8. Valves which are 2" or less, and are on process streams with greater than 2 wt% benzene shall wherever feasible (but no less than 95% of these valves) be 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. ~~ASP indicates 95.4% of valves meeting this requirement have been equipped with BSVs.~~ (basis: BACT)
9. All light liquid pumps and compressors shall have their shafts seals vented to a District approved abatement device which achieves a minimum 95% VOC destruction efficiency, or district approved equivalent technology. (basis: BACT)
10. All heavy liquid pumps shall have double seals or District approved equivalent technology. (basis: BACT)
11. All pressure relief valves in nonexempt hydrocarbon services shall be vented to a flare gas recovery system. (basis: BACT)
12. "1" sized drains shall utilize the "p-trap" design or District approved equivalent technology. (basis: BACT)
13. Fugitive sources with greater than 10 wt% benzene shall be inspected on a monthly basis (Benzene NESHAPS) – applies only to Aromatics Saturation Unit. Other nonexempt valves, pump seals, and compressor seals shall be inspected on a quarterly basis. (basis: benzene NESHAPS)
14. Valves and flanges shall comply with a 100 ppm leak detection limit. Pump seals and compressor seals shall comply with a 500 ppm leak detection limit. (basis: BACT)
15. Total fugitive POC emissions increase as a result of this project shall not exceed 76.4 tons/year POC. The owner/operator shall submit a revised pump, compressor, valve, flange, and pressure relief valve count within 60 days of startup 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/year, then the District will adjust the change in the cumulative increase attributed to this permit application. Specifies "as built" fugitives increase of 57.6 tpy (as opposed to allowed 76.4 tpy). Plants not completed as of 2/20/96: Butamer, C4 Treating, FCCU GHT, H2 Recovery. Request for District to NOT adjust offsets pending construction of these plants, with commitment that the owner/operator CUSA will provide additional revised count upon completion of each new facility.

Other sources listed on application #9978, but not subject to fugitive ederaten condition are:

- S-6053 – Alky/TAME Cooling Water Tower
- S-6016 – FCC Flare
- S-6019 – Alky/Poly Flare
- S-3205 - Methanol Tank
- S-3206 – Whole Alkylate Tank
- S-3207 – FCC Heavy Gasoline Tank
- S-4348 – Gas Recovery Unit.

(basis: offsets)

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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.
- 4) All new pumps at S-4253 shall have single mechanical seals or District-approved equivalent technology. (basis: BACT)
- 5) 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

- 60.□-□ Certificate shall be restricted to offsetting emissions in the petroleum (basis: Rule 2-4-302.1)
- 60.□-□ 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.

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Storage Tanks:

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

(basis: Regulation 2, Rule 4)

Condition #10597

For S-6054:

Hydrocarbon emissions from S-6054 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period. (basis: cumulative increase)

Total dissolved solids at the S-6054 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30-day period. (basis: cumulative increase)

"Deleted.

Condition #10598

For S-6055:

1. Hydrocarbon emissions from S-6055 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period. (basis: cumulative increase)
2. Total dissolved solids at the S-6055 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30-day period. (basis: cumulative increase)
3. Deleted.

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)

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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 of at least two approximately 200 pound carbon canisters arranged in series. (basis: cumulative increase)

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)

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)

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)

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

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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)

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:

60.□-□ 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)

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)

61.□-□

Condition #10909

For S-992:

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.

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)

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

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notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of five years. (basis: ~~ederates e increase~~)

Condition #10967

For S – 1052:

- 60.□-□ 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)

COND# 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

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respective toxic trigger levels. (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.%. (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. (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. (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 |

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| | |
|----------|---|
| Roof leg | water into product 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. (BACT)

Condition #11025

For S-3106:

- ~~60.□-□ Throughput at S-3106 shall not exceed 30,000,000 MMBbls of non-exempt stock during any 12-month consecutive period. (basis: cumulative increase)~~
- ~~2. Deleted.~~
- ~~3. The storage vapor pressure of any mixture stored in S-3106 shall not exceed 3.4 psia. The concentration of benzene of materials stored shall not exceed 2.0 vol%. (basis: cumulative increase and toxics)~~
- ~~4. The owner/operator of S-3106 shall maintain records of the stored liquid throughput, type, and storage vapor pressure in a District approved log to verify compliance with Parts 1 & 2. These records shall be summarized on a monthly basis, and may be in the form of computer generated data which is that are available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on site for a minimum of 5 years. (basis: cumulative increase and toxics)~~

Condition #11066

For S-4285:

- 60.□-□ Feedrate 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: BACT)
 - 60.□-□ The owner/operator shall conduct a District approved source test on every fifteenth day that S-4285 ~~throughput~~ 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 results of previous tests. (basis: BACT)
 - 60.□-□ 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: BACT)
- 60.□-□ The concentration of SO₂ emitted from S-4285 shall not exceed 330 ppmv/24 hour, corrected to 3% O₂. (basis: BACT)
 - 60.□-□ The concentration of NO_x emitted at S-4285 shall not exceed 220 ppmv/24 hour, or 180 ppmv/30 day,

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or 150 ppmv/year, corrected to 3% O₂. (basis: BACT)

60.□-□ 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)

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:

EQUATION #1 (~~Permit~~ ~~IR~~ ~~ERM~~)

Rave= summation of i=1 to i=f-1 (ti*((Ri+Ri+1)/2))

summation of i=1 to i=f-1 (ti)

Rave = time weighted average of test results

R1 = results from first included source test

Ri = results from source test i

Rf = results from most recent source test

ti = time interval between included source tests Ri and Ri+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:

7a1. Inspect each ESP rapper at least once per day. Inspection shall consist of visual inspection of 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)

7a2. a hopper level indicator of alarm on each ESP hopper in order to prevent overfilling of the hoppers. (basis: BACT)

7a3. Monitor and record Transformer Rectifier (TR) set secondary current readings on a daily basis. (basis: BACT)

7a4. 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)

7a5. 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

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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:

- 60.□-□ TSP emission source test results on S-4285, lbs/hr.
- 60.□-□ The number of days between each source test.
- 60.□-□ Calculated time weighted average TSP emissions in lbs/hr, for each source test conducted.
- 60.□-□ Daily rapper inspection records indicating working condition and repairs.
- 60.□-□ The number of broken rapper ceramic failures found during turnarounds.
- 60.□-□ Daily ESP TR set secondary current readings; and
- 60.□-□ ESP inlet temperature records. (basis: BACT)

- 60.□-□ 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)

- 60.□-□ 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)

- 60.□-□ 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:
 - 60.□-□ 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. 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)

- 60.□-□ 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)

- 60.□-□ The owner/operator shall source test for heavy metals and PAHs within 90 days of startup. (basis: BACT)

- 60.□-□ The owner/operator of S-4285 shall shut down S-15 Steam Generator upon startup of S4285. (basis:

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BACT)

- 60.□-□ 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 pretreat flue gas feed into A0014 ESP shall not exceed 500 lbs/hr.” (basis: toxics)

Condition #11193

For S-605,–S-610, S-660, S-6061, S-6066:

S-6061 – Alkane Groundwater Treatment Plant; S-0605–(Carbon Bed Feed Surge Tank), S-0610 – Process Vessel; A-607 (d-607A/B, two 175 lb carbon canisters in series); S-6066 Carbon Bed Feed Surge Tank; S-660 Process Vessel; and A-0615 (D-615A/D-615B) Carbon canisters.:

- 60.□-□ Total throughput for S-0605 (D-605, Carbon Bed Feed Surge Tank) and S-6066 (d655) carbon Bed Feed Surge Tank combined for a 12 month consecutive period shall not exceed 84.1 million gallons. (basis: cumulative increase)
- 60.□-□ Chevron shall equip flanges associated with S-6061, S-0605, and S-0610, S-6066 and S-0660 with graphite packed gaskets, or District approved equivalent technology. (basis: BACT)
- 60.□-□ For S-6061, S-0605, and S-0610, S-6066 and S-0660, Chevron shall use only live loaded valves or graphitic packed valves, or District approved equivalent technology. (basis: BACT)
- 60.□-□ No light liquid pumps shall be used at these sources, unless their shaft seals are vented to a District approved abatement device that achieves a minimum of 95% VOC destruction efficiency, or District approved equivalent technology. (basis: BACT)
- 60.□-□ Valves, pump seals, and flanges shall comply with regulation 8 requirements (basis: Regulation 8, Rule 18)
- 60.□-□ S-0605 and S-6066 shall be vented at all times of operation to A-0607 (D-607A/D-607B, 2 ea 175 lb carbon canisters in series) and A-0615. (basis: BACT)
- 60.□-□ S-0610 (process vessel) shall be vented at all times of operation to A-0607, either directly, or via S-0605. S-0660 Process vessel shall be vented at all times of operation to A0615, either directly or via S-6066. (basis: BACT)
- 60.□-□ A-0607 and A-0615 shall have an overall abatement efficiency of at least 95% by concentration, unless the following criteria are met:

The first carbon canister in series shall be changed out with unspent carbon upon detection of an outlet concentration of greater than 1000 ppmv measured as C1 above background 1 cm from the outlet with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO, and

The outlet of the last carbon in series shall not exceed 500 ppmv measured as C1 above background 1 cm from the outlet with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. (basis: BACT)

- 60.□-□ The operator of A0607 and A0615 shall measure the organic compound concentration at least once per month. Readings shall be taken at the inlet and outlet of the first carbon canister and the outlet of the second carbon canister in series. These monitoring readings shall be recorded in a log as the readings are taken. The monitoring results shall be used to determine the carbon changeout frequency necessary to maintain compliance with Part #8. (basis: BACT)
- 60.□-□ The annual average liquid benzene concentration in S-0605 and S-6066 shall not exceed 250 ppm (t) respectively. (basis: toxics)

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60.□-□ Sampling and analysis of the fluid in S-0605 and S-0606 shall be conducted semi-annually to verify compliance with Part #10. (basis: toxics)

60.□-□ The operator shall keep records of the following:

- a. throughput b. carbon changeouts

60.□-□ each monitor reading or analysis result and the day of operation they are taken

60.□-□ S-0605 and S-0606 liquid sample results

These records shall be kept on file for a minimum of 5 years following the date the data is recorded and shall be made available to District personnel on request. (basis: –BACT, toxics)

Condition #11208

For S-870, S-1909, S-1911, S-6125:

For S-870 at Plant 10

Throughput at S-870 shall not exceed 4,500 barrels of

non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)

60.□-□ The storage vapor pressure of any mixture stored in S-870 shall not exceed 0.40 psia. (basis: cumulative increase)

60.□-□ 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)

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:

Throughput at S-1911 shall not exceed 9,900 barrels of

non-exempt stock during any consecutive twelve-month period. (basis: (cumulative increase)

The storage vapor pressure of any mixture stored in S-

1911 shall not exceed 0.40 psia.. (basis: (cumulative increase)

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

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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-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

Throughput at S-6125 shall not exceed 1,400 barrels of

non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)

The storage vapor pressure of any mixture stored in S-

6125 shall not exceed 0.40 psia (basis: cumulative increase)

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)

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 a minimum of 5 years. (basis: cumulative increase and toxics)

For S-1909 at Plant 10:

Throughput at S-1909 shall not exceed 11,700 barrels of

non-exempt stock during any consecutive twelve-month period. (basis: (cumulative increase)

The storage vapor pressure of any mixture stored in S-

1909 shall not exceed 0.40 psia. (basis: (cumulative increase)

S-1909 may store the fuel additives DCI-4a, DMD-2, and

AO-735, or any other fuel additive provided that the storage

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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

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)

The total Jet “A” throughput for S-957 shall not exceed 7.011 million barrels during any consecutive 12 month period. (basis: offsets/cumulative increase)

In order to demonstrate compliance with the above conditions, the owner/operator of S-957 shall maintain the following records in a 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)

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:

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Throughput at 1653 shall not exceed 750,000 Bbls of non-exempt stock for a calendar year. (basis: cumulative increase)

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)

The material stored in S-1653 shall not have a vapor pressure greater than 0.5 psia (basis: cumulative increase)

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 for a minimum of 5 years from the date the record was made.

- 60.□-□ The type of all materials stored and □ede the materials were stored.
- 60.□-□ The total daily throughput of each material stored, summarized on a monthly basis.””
(basis: cumulative increase)

Condition #11775

S –

For S-4701, S-4702, S-4703, IC Engines, at Plant 10

These sources (1500 scfm Portable Air Compressor powered by Diesel Engine) shall cease operation by January 31, 1995. (basis: Regulation 2, Rule 4)

Daily records shall be maintained, in a District

approved logbook, for the hours of operation of the engines, and fuel usage. The logbook shall be kept on site and shall be made available to the District staff upon basis: record keeping)

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Visible particulate emissions from the engine shall not exceed 1.0 on the Ringelmann Chart. (basis: Regulation 6)

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. Or vol.?)
 - 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)
5. Tank 3214 (S-3214) shall be controlled by a liquid mounted primary seal, 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
- 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 sliding cover, OR ALTERNATELY A FLOAT

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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:
 - 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 liquid mounted primary seal, 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
 - 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 sliding cover, OR ALTERNATELY A FLOAT WITH MULTIPLE WIPERS.""

(basis: BACT)

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Condition #12177

For S-3139

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:

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)

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)

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)

60.□-□ 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)

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The operator of this source shall monitor with a FID or other method approved in writing by the APCO at the following locations:

- 60.□-□ At the exhaust of S-6250; the inlet to A-630.
- 60.□-□ At the exhaust of A-630; the inlet to A-631.
- 60.□-□ 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:

- 60.□-□ 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.

To maintain compliance with parts 2

and 3 the monitoring shall be conducted on a daily basis. The 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 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.

- 60.□-□ Each monitor reading or analysis result for the

day of operation they are taken.

- c. The calculation of organic breakthrough from the carbon beds.

- 60.□-□ 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

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corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: cumulative increase)

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 ~~two~~ years following the date the data is recorded. (basis: cumulative increase)

COND# 13008

For S-3201, Whole Alkylate Storage Tank, 170,500 BBL, at

Plant #10:

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: (cumulative increase)

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)

- 60.□-□ 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
 - 60.□-□ the true vapor pressure of the material
 - 60.□-□ the monthly throughput

(basis: cumulative increase and toxics)

Deleted.

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.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

| | |
|-----------------|---|
| 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 | Gasketed |
| Gauge hatch/Samplewell | 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;
60.□-□ 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 the sliding cover, or alternately a float with multiple wipers.

(basis: BACT)

Condition #13364

For S – 3202:

S-3202 Tank Methanol Storage Tank

1. Deleted.
2. Throughput for non-exempt stocks shall not exceed 700,000,000 MBbls in any consecutive 12 month period. (basis: cumulative increase)
3. The owner/operator of S-3202 may store petroleum hydrocarbon stocks other than methanol as long as the True Vapor Pressure is 2.6 psia or less, and the toxic risk from the tank does not increase. (basis: cumulative increase and toxics)
4. All gauge wells shall have no slot above the liquid level. (basis: cumulative increase)

Condition #13366

For S – 3207:

S-3207 Tank FCC Heavy Gasoline Tank

2. Throughput for non-exempt stocks shall not exceed 900,000,000 MBbls in any consecutive 12 month period. (basis: cumulative increase)
3. 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

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

increase. (basis: cumulative increase and toxics)

4. 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)
 - 60.□-□ FCC Gasoline Hydrotreater (S-4358)
 - 60.□-□ Hydrogen Recovery Plant Modernization (S-4348)
 - 60.□-□ Gas Recovery Unit (S-4346)

shall be subject to the following conditions:

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)

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)

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)

For all heavy liquid pumps, the owner/operator

shall use double mechanical seals or District-approved equivalent technology. (basis: BACT)

The owner/operator shall vent all pressure relief

valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)

For all process drains, the owner/operator shall

IVIII. Permit Conditions~~Source-Specific Generally Applicable Requirements~~

use the “p-trap” design or District approved equivalent technology. (basis: BACT)

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)

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]

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 application⁷. (basis: cumulative increase)

Condition #13370

- 60.□-□ 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)
- 60.□-□ S-6016 & S-6019 flaring shall be steam-assisted to prevent smoking. (basis: Regulation 2-1-403)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

Condition #13467

For S – 3196:

Throughput at S-3196 shall not exceed 2,000,000 bbls. During any consecutive month period. (basis: cumulative increase)

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)

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 #13597

For S-1798 at Plant 10:

Throughput at S-1798 shall not exceed 7,200,000 barrels during any consecutive twelve-month period. (basis: (cumulative increase)

Deleted.

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)

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:

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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)

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:

1. Organic compound emissions from S-6051 shall not exceed 23.7 lb/day, averaged over any consecutive 30-day period. (basis: (cumulative increase)
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)

Condition #14701

For S – 4291 and S-4356:

Operation of new or modified equipment in the following plants

1. Alkylation Plant (S-4291)
 - 60.□-□ Deisobutanizer Section of the DIB/Butamer Plant (S-4355)
 - 60.□-□ TAME Plant (S-4356)
 - 60.□-□ 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:

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)

For valves that are 2 inches or less and are on

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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)

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)

For all heavy liquid pumps, the owner/operator shall

use double mechanical seals or District-approved equivalent technology. (basis: BACT)

The owner/operator shall vent all pressure relief

valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)

For all process drains, the owner/operator shall use

the "p-trap" design or District-approved equivalent technology. (basis: BACT)

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)

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]

The total throughput at S-4291 shall not exceed 36,000

barrels per calendar day. (basis: (cumulative increase)

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)

Condition #15038

For S – 3133:

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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 – 25:

The total volume of Automate Blue 8 stored in Storage Tank S-25 shall not exceed 60 Bbls (2520 gallons) during any consecutive 12 month period (basis: cumulative increase).

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.

a. The purchase records that show the amount of Automate Blue 8 purchased per month used at S-25. The purchased amount shall be considered to be equal to the volume of Automate Blue 8 stored.

(basis: cumulative increase)

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)

5. Deleted.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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)

60.□-□ 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)

Condition # 15698

For S – 4148 and 4393:

Conditions for A-261 and A-262:

Washwater temperature shall not exceed 80 degree

Fahrenheit during any 3-hour averaging period. (Basis:

Regulation 8, Rule 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)

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)

For each scrubber (A-261 and A-262), the ratio of

~~IVIII. Permit Conditions Source-Specific Generally Applicable Requirements~~

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)

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)

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)

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. (Basis: Regulation 8, Rule 2)

To determine compliance with Regulation 8-2-301, a

source test shall be performed on the scrubber vent by the District or by a District-approved source test contractor within 60 days of startup of the scrubber abatement system. 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)

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To demonstrate compliance with the above conditions,

Permit Holder shall keep the following records on site and made available for District inspection for a period of 5 years from the date on that a record is made. 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). The parametric measurements mentioned above the hours and date of any Hydrogen Plant shutdowns all source test records (Basis: Regulation #, Rule 2)

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)

Conditions for S-4393

60.□-□ 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:

60.□-□ Make a concerted effort to identify and correct the cause of the violation in as prompt a manner as possible.

60.□-□ Add deodorant to reduce the nuisance or odors from S-4393.

60.□-□ 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 # 16393

For S – 4261:

These conditions will be linked to condition #469. Emissions from A-54 shall be included in the cap emission calculation.

1. Total fuel usage at A-54 Thermal oxidizer shall not exceed 43,800 million btu's in any consecutive 12-month period. (basis: (cumulative increase)

2. Emissions from A-54 shall not exceed the following limits:

NOx: 0.2 lb/MMBtu

CO: 0.80lb/MMBtu

SOx: 0.027 lb/MMBtu

PM: 0.01 lb/MMBtu

(basis: Regulation 2-2-112)

3. A-54 shall maintain a minimum temperature of 1400F at all times that S-4261 is venting to A-54. The

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averaging time for this condition is one hour. (basis: BACT)

4. The owner operator of A-54 shall install and operate a continuous temperature monitor and recorder in order to demonstrate compliance with part #3. (basis: BACT)

5. Deleted.

6. The owner/operator of A-54 shall maintain a District approved monthly log of all the fuel usage, temperature logs, and source 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: cumulative increase, BACT)

Condition #16650

This condition is effective until 6/1/04. After 6/1/04, this condition shall be replaced by Condition No. 21232.

For S – 4129 and 4131:

The owner/operator of S-4129 and S-4131 shall properly install and properly operate an in-stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)
The maximum firing rate at S-4129 shall not exceed 5592 million Btu's per day. (basis: Reg.2-2)

The maximum firing rate at S-4131 shall not exceed

5664 million Btu's per day. (basis: Reg.2-2)

The owner/operator of S-4129 and S-4131 shall

maintain daily records of all CEM data, NOx mass emissions, fuel usage, CO source test data results, and the higher heat content of the fuel in order to demonstrate compliance with condition numbers 2 and 3 and Regulation 9-

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)

The owner/operator of S-4129 and S-4131 shall conduct

semi-annual district approved CO source tests with the first occurring within 45 days of the startup of S-4129 and

S-4131 in order to demonstrate that the CO emissions are less than 200 ppmv at 3% O2. The time interval between tests shall not exceed 8 months. District conducted CO emission test associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests.

If two or more of the CO source test results,

over any consecutive five-year period, are greater than or equal to 200 ppmv at 3%, the owner/operator of S-4129 and S-4131 is required to install and operate a CEM to continuously

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measure CO. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating.

Condition #16679

For S – 4170:

Conditions for A-260 Selective Catalytic Reduction (SCR) System for abatement of: S-4170 F-305 Furnace, 847

MMBtu/hour, at Hydrogen Plant A-Train:

Ammonia emissions from Source 4170, Hydrogen Reforming A Train Furnace F-305, shall not exceed 120 pounds per Hour (Basis: toxic risk screen).

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)

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)

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)

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:

the start-up or shutdown has been proceeding continuously, and Chevron has been increasing or decreasing temperatures at a rate limited by

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- 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)

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.

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)

COND# 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 |

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| | | | |
|------|----------------------------------|-------|------|
| 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. 20328 | | 847 |
| 4171 | F-355 Reform Furn. H2 plt. 20328 | | 847 |
| 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 |

COND# 16698 -----

AN 19297; Amended under AN 8342 (Oct. 2003)

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

The owner/operator of S-4038, S-4039, S-4040, and S-4041 shall conduct semi-annual District-approved source tests for CO in order to demonstrate compliance with

Regulation 9-10. The time interval between tests shall

not exceed 8 months. At least one of the source tests

each year shall be conducted during operation that is

deemed by the District to be representative of normal

operation. District-conducted CO emission tests

associated with District-conducted NOx CEM field accuracy

tests may be substituted for the required semi-annual CO

source tests.

If any two source test results, over any consecutive five
year period, are > 200 ppmv CO at 3% O₂, the
owner/operator is required to install and operate a CEM
to continuously measure CO and O₂. The owner/operator
shall be given the time period allowed in the District's

Manual of Procedures to have the CEM installed and

properly operating. (Basis: Reg. 9-10)

*Each combustion source listed below shall not exceed

its indicated maximum firing rate (higher heating value),

expressed in units of million Btu per day (MM Btu/day).

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

**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 Description | Enforceable Limit MM Btu/day | Used for Fees MM Btu/h |
|---------------------------------|---------------------------------|---------------------------|
| | <i>S-4038 F-3550 #4</i> | |
| Rheniformer Process Heater 4480 | 187 | |
| | <i>S-4039 F-3560 #4</i> | |
| Rheniformer Process Heater 4080 | 170 | |
| | <i>S-4040 F-3570 #4</i> | |
| Rheniformer Process Heater 3648 | 152 | |
| | <i>S-4041 F-3580 #4</i> | |
| Rheniformer Process Heater 1848 | | 77 |

60.□-□ (deleted per AN 8342)

60.□-□ The owner/operator of S-4038, 4039, 4040 and 4041 shall install and properly operate an in-stack NOx CEM, and O2 CEM, and a fuel-flow meter to demonstrate compliance with section 9-10-502. (Basis: Reg. 9-10-502)

The owner/operator of S-4038, S-4039, S-4040, and S-4041 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage and higher heating value of the fuel in order to demonstrate compliance with condition number 2 and Regulation 9-10, and shall keep all source test data. 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.

(Basis: record keeping, Reg. 9-10-504)

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IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

Condition #16731

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For S – 4164, S-4165, S-4166, S-4168, S-4169:

1. The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall conduct a District approved CO source test semi-annually in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for

Regulation 9, Rule 10. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis:

Regulation 9, Rule 10)

If any two source test results, over any consecutive

five year period, are more than 200 ppmv CO at 3% O₂, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given six months to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

- 2. The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall properly install and properly operate an in-stack NO_x CEM, an O₂ CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate

compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

*Each combustion source listed below shall not exceed

its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/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 Description | Enforceable Limit MM Btu/day | Used for fees MM Btu/h |
|--------------------------|---------------------------------|---------------------------|
| S-4164 F-630 TKN Furnace | 1632 | 68 |
| S-4165 F-620 TKN Furnace | 1632 | 68 |
| S-4166 F-610 TKN Furnace | 1632 | 68 |
| S-4168 F-730 TKN Furnace | 7944 | 331 |
| S-4169 F-731 TKN Furnace | 6240 | 260 |

(basis: Cumulative Increase)

60.□-□ The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall maintain daily records of all CEM data, NO_x mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with part #3 and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10; Cumulative Increase)

IVIII. Permit Conditions~~Source-Specific Generally Applicable Requirements~~

COND# 17310 -----

- The owner/operator of S-4152 and S-4154 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)
- * 2. The maximum firing rate at S-4152 shall not exceed 50.5 million Btu's per hour. (basis: Reg.2-2)
- * 3. The maximum firing rate at S-4154 shall not exceed 50.5 million Btu's per hour. (basis: Reg.2-2)
- The owner/operator of S-4152 and S-4154 shall maintain daily records of all fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition numbers 2 and 3 and Regulation 9-10. 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)

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)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

Condition #17527

For S – 4426 to S-4428:

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)

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)

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:

Total throughput at S-3220 shall not exceed

12,466,000 barrels in any consecutive 12 month period. (basis: cumulative increase)

This throughput shall be determined by tank roof

movement measured by a district approved tank level gauging system. (basis: cumulative increase)

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 #17628

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For S – 4152, S-4154:

The owner/operator of S-4152 and S-4154 shall

properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule-10. (basis: Regulation 9, Rule 10)

~~IVIII. Permit Conditions Source-Specific Generally Applicable Requirements~~

The owner/operator of S-4152 and S-4154 shall

conduct a district approved NO_x, CO, and O₂ source test within 45 days of the startup of S

- 4152 and S-4154 in order to demonstrate the NO_x and CO emissions over the full-range of operation

of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O₂, (2) low fire/high O₂, (3) high fire/low O₂, and (4) high fire/high O₂. The results of this test shall be submitted to the district within 45 days of the test date.

(basis: Regulation 9, Rule 10)

The owner/operator of S-4152 and S-4154 shall

conduct at least two district approved NO_x, CO, and O₂ source tests per consecutive 12 month period in order to measure NO_x, CO, and O₂ at the as-found firing rate, within 20% of the permitted O₂ conditions likely to maximize NO_x emissions.

(basis: Regulation 9, Rule 10)

The owner/operator of S-4152 and S-4154 shall

conduct two additional district approved NO_x, CO, and O₂ source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi

- annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O₂. (basis: Regulation 9, Rule 10)

The owner/operator of S-4152 and S-4154 shall

conduct a district approved source test within 45 days of operation outside of the “box”

established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days.

These source test results shall be submitted to the district source test manager within 45 days of the test date.

60.□-□ If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO_x emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

60.□-□ If the results of this source test do not exceed emission concentrations or rates, the

~~IVIII. Permit Conditions Source-Specific Generally Applicable Requirements~~

allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

60. □-□ *NOx emissions from S-4152 shall not exceed 0.035

pounds NOx per million Btu. (basis: Regulation 9, Rule 10)

**NOx emissions from S-4154 shall not exceed 0.035*

pounds NOx per million Btu. (basis: Regulation 9, Rule 10)

**The maximum firing rate at S-4152 shall not*

exceed 1212 million Btu's per day. (basis:

Regulation 2, Rule 2)

**The maximum firing rate at S-4154 shall not*

exceed 1212 million Btu's per day. (basis:

Regulation 2, Rule 2)

The owner/operator of S-4152 and S-4154 shall

properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

The owner/operator of S-4152 and S-4154 shall

maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with part numbers 6, 7, 8, and 9, and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10)

Condition #17631

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

This condition is effective until 12/6/1/04. After 12/6/1/04, this condition shall be replaced by Condition No. 21232.

For S – 4158:

The owner/operator of S-4158 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

The owner/operator of S-4158 shall conduct a district approved NO_x, CO, and O₂ source test within 45 days of the startup of S-4158 in order to demonstrate the NO_x and CO emissions over the full

- range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O₂, (2) low fire/high O₂, (3) high fire/low O₂, and (4) high fire/high O₂. The results of this test shall be submitted to the district within 45 days of the test date. (basis: Regulation 9, Rule 10)

The owner/operator of S-4158 shall conduct at least two district approved NO_x, CO, and O₂ source tests per consecutive 12-month period in order to measure NO_x, CO, and O₂ at the as-found firing rate, within 20% of the permitted O₂ conditions likely to maximize NO_x emissions. (basis: Regulation 9, Rule 10)

The owner/operator of S-4158 shall conduct two additional district approved NO_x, CO, and O₂ source tests at conditions likely to maximize CO at the as

- found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O₂. (basis: Regulation 9, Rule 10)

The owner/operator of S-4158 shall conduct a district approved source test within 45 days of operation outside of the “box” established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.

If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NOx emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

If the results of this source test do not

exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the "box" if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

**NOx emissions from S-4158 each shall not exceed 0.035*

pounds NOx per million Btu. (basis: Regulation 9, Rule 10)

**The maximum firing rate at S-4158 shall not exceed*

1152 million Btu's per day. (basis: Regulation 2, Rule 2)

8. The owner/operator of S-4158 shall properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

9. The owner/operator of S-4158 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with part numbers 6 and 7, and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10; Regulation 2, Rule 2)

Condition #17675

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For S – 4132 AND S-4135:
The owner/operator of S-4132 and S-4135 shall properly install and properly operate a fuel gas

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

flowmeter, NOx and O2 CEM and continuous recorders on both of these units in order to demonstrate compliance with Regulation 9, Rul (basis: Regulation 9, Rule 10)
The owner/operator of S-4132 and S-4135 shall conduct semi-annual district approved CO source tests with the first occurring within 45 days of the startup of S-4132 and S-4135 in order to demonstrate that the CO emissions are less than 200 ppmv at 3% O2. The time interval between tests shall not exceed 8 months. District conducted CO emission test associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests. (basis: Regulation 9, Rule 10)
If two or more of the CO source test results, over any consecutive five-year period, are greater than or equal to 200 ppmv at 3%, the owner/operator of S-4132 and S-4135 is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating.
The maximum firing rate at S-4132 shall not exceed 5640 million Btu's per day. (basis: Regulation 2, Rule 2)

The maximum firing rate at S-4135 shall not exceed

6528 million Btu's per day. (basis: Regulation 2, Rule 2)

The owner/operator of S-4132 and S-4135 shall

maintain daily records of all fuel usage, the higher heat content of the fuel, and all CEM and source test data in order to demonstrate compliance with part numbers 2, 3, and 4, and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10; Regulation 2, Rule 2)

Condition #17973

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition No. 21232.

For S – 4171:

COND# 17973 -----

- 1. The owner/operator of S-4171 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9-10 and the Monitoring Policy for Regulation 9-10. The time interval between tests shall not exceed 8

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Reg.9-10)

If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O₂, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Reg.9-10)

2. The owner/operator of S-4171 shall properly

install and properly operate an in-stack NO_x CEM, an O₂ CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)

3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/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 Description | |
|--------|--------------------------|---------------------------|----------|
| | | Enforceable | used for |
| | | Limit | fees |
| | | MM Btu/day | MM Btu/h |
| S-4171 | F-355 Hydrogen B Furnace | 20,328 | 847 |

60.□-□ The owner/operator of S-4171 shall maintain daily records of all CEM data, NO_x mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition #3 and Regulation 9-10. 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)

Condition #18003

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For S – 4059 and S-4060:

1. The owner/operator of S-4059 and S-4060 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

- 2. The owner/operator of S-4059 and S-4060 shall conduct a district approved NO_x, CO, and O₂ source test within 45 days of the startup of S-4059 and S-4060 in order to demonstrate the NO_x and CO emissions over the full-range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners:

low fire/low O₂, (2) low fire/high O₂, (3)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

high fire/low O₂, and (4) high fire/high O₂. The results of this test shall be submitted to the district within 45 days of the test date. (basis: Regulation 9, Rule 10)

- 3. The owner/operator of S-4059 and S-4060 shall conduct at least two district approved NO_x, CO, and O₂ source tests per consecutive 12 month period in order to measure NO_x, CO, and O₂ at the as-found firing rate, within 20% of the permitted O₂ conditions likely to maximize NO_x emissions. (basis: Regulation 9, Rule 10)

- 4. The owner/operator of S-4059 and S-4060 shall conduct two additional district approved NO_x, CO, and O₂ source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O₂. (basis: Regulation 9, Rule 10)

- 5. The owner/operator of S-4059 and S-4060 shall conduct a district-approved source test within 45 days of operation outside of the "box" established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.

If the results of this source test exceed the

permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO_x emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

If the results of this source test do not

exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the "box" if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

- 6. NO_x emissions from S-4059 and S-4060 each shall not exceed 0.03 pounds NO_x per million Btu. (basis: Regulation 9, Rule 10)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

7. The maximum firing rate at S-4059 shall not exceed 121 million Btu's per hour or 2904 million Btu's per rolling 24-hour period. (basis: Regulation 2, Rule 2)
8. The maximum firing rate at S-4060 shall not exceed 144 million Btu's per hour or 3456 million Btu's per rolling 24-hour period. (basis: Regulation 2, Rule 2)
 - 9. The owner/operator of S-4059 and S-4060 shall properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
 - 10. The owner/operator of S-4059 and S-4060 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with parts 6, 7, 8, and 9, and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10; Regulation 2, Rule 2)

Condition # 18015

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For S – 4070 to S-4072:

- 1. The owner/operator of S-4070, S-4071, and S-4072 shall conduct at least two District approved CO source tests within a 12-month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)
 - a) If any two source test results, over any consecutive five year period, are more than 200 ppmv CO at 3% O2, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating.

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(basis: Regulation 9, Rule 10)

- 2. The owner/operator of S-4070, S-4071, and S-4072 shall properly install and properly operate an in-stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

- 3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/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 Description | enforceable limit MM Btu/day | used for fees MM Btu/h |
|-----------------------------------|---------------------------------|---------------------------|
| S-4070 F-1100A Crude Unit Furnace | 9552 | 398 |
| S-4071 F-1100B Crude Unit Furnace | 9720 | 405 |
| S-4072 F-1160 Crude Unit Furnace | 8064 | 336 |

(basis: Cumulative Increase)

- 4. The owner/operator of S-4070, S-4071, and S-4072 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with part #3 and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10; Cumulative Increase)

Condition #18029

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition No. 21232.

For S – 4133:

The owner/operator of S-4133 shall conduct at

least two District approved CO source tests within a 12-month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

If any two source test results, over any

consecutive five year period, are more than 200 ppmv CO at 3% O₂, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

The owner/operator of S-4133 shall properly

install and properly operate an in-stack NO_x CEM, an O₂ CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

The owner/operator of S-4133 shall maintain daily

records of all CEM data, NO_x mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition #16686 and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10)

Condition #18137

For all sources without explicit throughput limiting conditions:

~~1. For grandfathered sources, the throughput limits [as shown in Table IIA above] are based upon District records at the time of MFR permit issuance, in accordance with 2-1-234.3. Exceedance of this limit is not a violation of the permit if the operator can, within 30 days of the date of the exceedance, provide documentation to the District demonstrating the throughput limit should be higher, established in accordance with 2-1-234.3, and the excess throughput complies with the new limit." (Basis: Section 2-1-234.3)~~

***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)

*3. In addition to part 1 and part 2 above, those tanks with non-exempt stock throughput limits shall comply with the following operating condition. Prior to filling the tank with exempt stock, the Owner/Operator shall

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

degas the tank to an approved emission control system. An approved emission control system collects and processes all organic vapors and gases and has an abatement efficiency of at least 90% by weight. The system shall be operated until the concentration of organic compounds in the tank is less than 10,000 ppm expressed as methane. (Basis: Section 2-1-234.3)

Condition #18166

This condition is effective until 12/6/1/04. After 12/6/1/04, this condition shall be replaced by Condition No. 21232.

For Sources S-4061 and S-4062:

60.□-□ The owner/operator of S-4061 and S-4062 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)

60.□-□ If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O₂, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4061 and S-4062 shall properly install and properly operate an in-stack NO_x CEM, an O₂ CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

60.□-□ *Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/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 Description | enforceable limit MM Btu/day | used for fees MM Btu/h |
|-----------------------------|---------------------------------|---------------------------|
| S-4061 F-410 #5 NHT Furnace | 2928 | 122 |
| S-4062 F-447 #5 NHT Furnace | 3960 | 165 |

(basis: cumulative increase)

60.□-□ The owner/operator of S-4061 and S-4062

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shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher content of the fuel in order to demonstrate compliance with ~~part condition #3~~ and Regulation 9, Rule 10.

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. (Regulation 9, Rule 10, cumulative increase)

Condition #18172

This condition is effective until 12/6/1/04. After 12/6/1/04, this condition shall be replaced by Condition No. 21232.

For Sources S-4042, S-4043, S-4044, and S-4045:

60.□-□ The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)

60.□-□ If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O2, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall properly install and properly operate an in stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9-10. (basis: Regulation 9, Rule 10)

60.□-□ Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/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 Description | enforceable limit MM Btu/day | used for fees MM Btu/h |
|-------------------------------|---------------------------------|---------------------------|
| S-4042 F-550 #5 Rheni Furnace | 4752 | 198 |

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| | | | |
|--------|------------------------|------|-----|
| S-4043 | F-560 #5 Rheni Furnace | 3192 | 133 |
| S-4044 | F-570 #5 Rheni Furnace | 1872 | 78 |
| S-4045 | F-580 #5 Rheni Furnace | 1224 | 51 |

(basis: cumulative increase)

60.□-□ The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with ~~condition part 3~~ and Regulation 9, Rule 10. 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. (Regulation 9, Rule 10)

Condition #18350

This condition is effective until 12/6/04. After 12/6/04, this condition shall be replaced by Condition No. 21232.

For Source S-4068:

60.□-□ The owner/operator of S-4068 shall properly install and properly operate a fuel gas flowmeter, and recorder on this unit in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4068 shall conduct a district approved NOx, CO, and O2 source test prior to 12/31/01 in order to demonstrate the NOx and CO emissions over the full-range of operation of S-4068 or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O2, (2) low fire/high O2, (3) high fire/low O2, and (4) high fire/high O2. The results of this test shall be submitted to the district within 45 days of the last test date. (basis: Regulation 9, Rule 10)

60.□-□ Beginning on 7/1/02 the owner/operator of S-4068 shall conduct at least two district approved NOx, CO, and O2 source tests per consecutive 12 month period in order to measure NOx, CO, and O2 at the as-found firing rate, within 20% of the permitted O2 conditions likely to maximize NOx emissions. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4068 shall conduct two additional district approved NOx, CO, and O2 source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O2. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4068 shall conduct a

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district approved source test within 45 days of operation outside of the “box” established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.

60.□-□ If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NOx emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

60.□-□ If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

60.□-□ *NOx emissions from S-4068 ~~each~~ shall not exceed 0.14 pounds NOx per million Btu. (basis: cumulative increase)

60.□-□ *The maximum firing rate at S-4068 shall not exceed 127.5 million Btu’s per hour or 3060 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)

60.□-□ The owner/operator of S-4068 shall properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4068 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with condition numbers 6 and 7, and Regulation 9, Rule 10. 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. (basis: Regulation 9, Rule 10, and Regulation 2, Rule 2)

Condition #18387

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition

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No. 21232.

For Sources S-4159 and S-4160:

60.□-□ The owner/operator of S-4159 and S-4160 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4159 and S-4160 shall conduct a district approved NO_x, CO, and O₂ source test within 45 days of the startup of S-4159 and S-4160 in order to demonstrate the NO_x and CO emissions over the full-range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O₂, (2) low fire/high O₂, (3) high fire/low O₂, and (4) high fire/high O₂. The results of this test shall be submitted to the district within 30 days of the test date. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4159 and S-4160 shall conduct at least two district approved NO_x, CO, and O₂ source tests per consecutive 12 month period in order to measure NO_x, CO, and O₂ at the as-found firing rate, within 20% of the permitted O₂ conditions likely to maximize NO_x emissions. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4159 and S-4160 shall conduct two additional district approved NO_x, CO, and O₂ source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O₂. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4159 and S-4160 shall conduct a district approved source test within 45 days of operation outside of the “box” established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 30 days of the test date.

60.□-□ If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO_x emission concentration or emission rate and/or an adjustment of the operating range,

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based on the new test data.

60.□-□ If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

60.□-□ *NOx emissions from S-4159 and S-4160 each shall not exceed 0.033 pounds NOx per million Btu. (basis: Regulation 9, Rule 10)

60.□-□ *The maximum firing rate at S-4159 shall not exceed 68 million Btu’s per hour or 1632 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)

60.□-□ *The maximum firing rate at S-4160 shall not exceed 71 million Btu’s per hour or 1704 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)

60.□-□ The owner/operator of S-4159 and S-4160 shall properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4159 and S-4160 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with ~~condition number~~ parts 6, 7, and 8, and Regulation 9, Rule 10.

60.□-□ (basis: Regulation 9, Rule 10) 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. (basis: Regulation 9, Rule 10)

Condition #18391

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition No. 21232.

For Source S-4167:

60.□-□ The owner/operator of S-4167 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4167 shall conduct a district approved NOx, CO, and O2 source test within 45 days of the startup of S-4167 in order to demonstrate the NOx and CO emissions over the

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full-range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O₂, (2) low fire/high O₂, (3) high fire/low O₂, and (4) high fire/high O₂. The results of this test shall be submitted to the district within 30 days of the test date. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4167 shall conduct at least two district approved NO_x, CO, and O₂ source tests per consecutive 12 month period in order to measure NO_x, CO, and O₂ at the as-found firing rate, within 20% of the permitted O₂ conditions likely to maximize NO_x emissions. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4167 shall conduct two additional district approved NO_x, CO, and O₂ source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O₂. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4167 shall conduct a district approved source test within 45 days of operation outside of the “box” established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.

60.□-□ If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO_x emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

60.□-□ If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

60.□-□ NO_x emissions from S-4167 shall not exceed 0.035 pounds NO_x per million Btu. (basis: Regulation 9, Rule 10)

60.□-□ The maximum firing rate at S-4167 shall not exceed

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145 million Btu's per hour or 3480 million Btu's per rolling 24-hour period. (basis: Regulation 2, Rule 2)

60.□-□ The owner/operator of S-4167 shall properly install and properly operate a CEM to continuously measure CO and O2 if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

60.□-□ The owner/operator of S-4167 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with condition numbers 6, and 7, and Regulation 9-10. 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. (basis: Regulation 9, Rule 10)

Condition #18400

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition No. 21232.

For Sources S-4188 and S-4189:

60.□-□ The owner/operator of S-4188 and S-4189 shall properly install and properly operate a fuel gas flowmeter and recorder in order to demonstrate compliance with Regulation 9-10 Rule 10. (basis: Regulation 9, Rule 10)

60.□-□ The maximum firing rate at S-4188 shall not exceed 648 million Btu's per day. (basis: Regulation 2-1-301)

3. The maximum firing rate at S-4189 shall not exceed 360 million Btu's per day. (basis: Regulation 2-1-301)

60.□-□ The owner/operator of the S-4188 and S-4189 shall conduct a District-approved source test within 60 days of receipt of this Authority to Construct deemed by the District to be representative of normal operation in order to demonstrate the pre-temporary experimental emissions of NOx, CO, and SO2. The results of this test shall be submitted to the district within 45 days of the completion of the source test. (basis: Regulations 9-10 & 2-1-403)

60.□-□ The use of these temporary experimental Low NOx burners shall be completed by 7/1/02. (basis: Regulation 9-10)

60.□-□ The owner/operator of S-4188 and S-4189 shall maintain daily records of all NOx emissions measured, fuel usage, source test data, and the higher heat content of the fuel in order to demonstrate compliance with ~~condition numbers~~ parts 2 and

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3, and Regulation 9-10. 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. (Regulations 2-1-301 and Regulation 9, Rule 10)

Condition # 18655 -----

Chevron Products Company; Plant #A0010; Conditions for S-4227, S-4228, and S-4229:

Owner/Operator shall conduct an annual source test to demonstrate compliance with District Regulation 9, Rule 1, Section 313.2. (basis: Regulation 2-6-503)

Owner/Operator shall conduct an annual SO₃/H₂SO₄

source test to demonstrate compliance with Regulation 6_ 330. (basis: Regulation 2-6-503)

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COND# 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:

Effective 12/1/04.

- 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 1,357,512 #/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:

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- 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 42 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.**

 - 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 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:**

 - a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-301 when operating the flare.**

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- b. 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 Flare** 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)

~~60.104(a)(1) The owner/operator shall inspect the flares as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using gas flow meters for each flare, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the owner/operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. Regulation 2-6-409.2)~~

The owner/operator shall keep records of all

~~flaring events lasting greater than 15 consecutive minutes using gas flow meters for each flare. The owner/operator shall correct visible emissions problems. The records shall be retained for at~~

~~least five (5) years and shall be made available to~~

~~District personnel upon request:~~

~~Regulation 2-6-409.2)~~

~~The owner/operator of flare S-6015 shall only be used to~~

~~burn only process upset gases or fuel gas that is released~~

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~~to it as a result of relief valve leakage or other~~

~~emergency malfunctions. (basis: 40 CFR 60.104(a)(1))~~

~~4. The owner/operator of S-6015 shall record in a District approved log every flaring event. This log shall be kept on site and made available to the District upon request for a period of 5 years from the date of entry. (basis: 40 CFR 60.104(a)(1))~~

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Condition #18702

For Source S-3225:

- 60.□-□ Total throughput at S-3225 shall not exceed 10,832,000 barrels in any consecutive 12 month period. (~~cumulative increase~~**BACT**)
- 60.□-□ 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)
- 60.□-□ 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:

COND# 18945 -----

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. (cum inc)
2. The owner/operator of S-4434 shall not exceed 4.97 MM scfd total H2S produced in any calendar day and 4.45 MM scfd averaged over any consecutive 12 month period. (cum inc)
3. The owner/operator of S-4435 shall not exceed 5.0 MM scfd total H2S produced in any calendar day and 5.0 MM scfd averaged over any consecutive 12 month period. (cum inc)
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. (cum inc)
5. The owner/operator of S-4345 shall not exceed 195 gpm total feedrate based on a one hour averaging time. (cum inc)
6. The owner/operator of S-4345 shall not exceed 1.81 MM scfd total H2S produced in any calendar day. (cum inc)
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

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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. (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. (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. (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. (cumulative increase)
- 60.□-□ H2S emissions from each of the tail gas units A-20, A-21, and A-22 shall each not exceed 10 ppmv. (CEQA/BACT)
- *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 ~~conditions~~ parts 1 through 4. (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)

Condition #19425

For Source S-990:

- 60.□-□ Total throughput at S-990 shall not exceed 5,801,400 barrels in any consecutive 12 month period. (BACT)
- 60.□-□ The consecutive 12 month average vapor pressure of all materials stored in S-990 shall not exceed 8.33 psia. (BACT)
- 60.□-□ 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. (BACT)
- 60.□-□ 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

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district staff upon request. (BACT)

Condition #19586

This condition is effective until 126/1/04. After 126/1/04, this condition shall be replaced by Condition No. 21232.

General Monitoring Condition

60.□-□ The owner/operator shall conduct a District-approved source test on a semi-annual basis on Sources S-4032, S-4033, S-4069, S-4095, S-4153, S-4156, S-4161, S-4162, S-4163, and S-4188 to demonstrate compliance with Regulation 9-10-301.1 (NOx not to exceed 0.033 lbs/MMbtu on refinery wide basis). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]

60.□-□ The owner/operator shall conduct a District-approved source test on an annual basis on Source S-4189 to demonstrate compliance with Regulation 9-10-301.1 (NOx not to exceed 0.033 lbs/MMbtu on refinery wide basis) and Regulation 9-10-303 (NOx not to exceed 0.2 lbs/MMbtu). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]

60.□-□ The owner/operator shall conduct a District-approved source test on a semi-annual basis on Sources S-4032, S-4033, S-4046, S-4069, S-4095, S-4153, S-4156, S-4161, S-4162, S-4163, S-4188, S-4332 to S-4335, S-4337, and S-4338 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]

60.□-□ The owner/operator shall conduct a District-approved source test on an annual basis on Sources S-4189, S-4330, S-4331, S-4336, and S-4339 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]

5. The owner/operator of S-4155 shall conduct district approved semi-annual source tests to determine compliance with the 50 ppmv CO limit in BAAQMD Condition 8773, part 2. All test results shall be submitted to the district within 45 days of the test date. (Basis: Regulation 2-6-501)

COND# 20225 -----

S-7501

□ 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

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

limited to 100 hours per any calendar year. [Basis:
Regulation 9-8-330]

“Emergency Conditions” is defined as any of
the following:

- Loss of regular natural gas supply.
- Failure of regular electric power
supply.
- Flood mitigation.
- Sewage overflow mitigation.
- Fire.
- 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:

- Operation of an emergency standby
engine to test its ability to perform for an
emergency use, or
- Operation of an emergency standby
engine during maintenance of a primary motor.

[Basis: Regulation 9-8-232]

The owner/operator shall equip the emergency
standby engine(s) with either:

- 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]

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:

- Hours of operation (total).
- b. Hours of operation (emergency).
- c. For each emergency, the nature of the
emergency condition.

Fuel usage for engine(s) if a non-resettable
fuel usage meter is utilized.

[Basis: Regulations 9-8-530 and 1-441]

S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-
7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522,
S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

□ Hours of Operation: The owner/operator shall ensure the total hours of operation of S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531 each does not exceed 720 hours during any calendar year. (Basis: Loss of Exemption of Reg 2-1-113.2.10)

□ In order to demonstrate compliance with the above condition, the owner/operator of S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, 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)

□ The owner/operator shall ensure that S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531 does 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# 20361 -----

□ The owner/operator of S-3127 shall not exceed 223,000 barrels of recovered oil or any material that has the equivalent or lower vapor pressure and equivalent or lower toxicity than recovered oil in any consecutive 12 month period. (cum inc) The owner/operator of S-3127 shall only store materials with a maximum vapor pressure of 2.5 psia. (cum inc)

□ The owner/operator of S-3127 shall not exceed a total benzene concentration of 0.38% by weight. (toxics)

□ The owner/operator of S-3127 shall analyze material stored in S-3127 on a quarterly basis for both vapor pressure and benzene content in order to demonstrate compliance with condition #'s 2 and 3. (cum inc)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

- The owner/operator of S-3127 shall maintain a district approved monthly log of all material throughput at S-3127 and all quarterly analyses of both vapor pressure and benzene content. 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 #20620:

For Refinery:

60.□-□ By October 11, 2004, the owner/operator shall submit a complete application for a significant revision to the Major Facility Review permit to incorporate the limits, compliance options, and monitoring requirements in 40 CFR 63, Subpart UUU, National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (basis: 40 CFR 63, Subpart UUU)

2. By April 11, 2005, the owner/operator shall submit an operation, maintenance, and monitoring plan for District review in accordance with 40 CFR 63.1574(f). The plan shall be prepared for each affected source, control system, and continuous monitoring system. The plan shall be submitted to the Director of Enforcement. (basis: 40 CFR 63.1574(f))

60.□-□

COND# 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).

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: Regulation 2-6-409.2)

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)

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

COND# 20773 -----

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).

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:8-5-117 & 2-6-409.2). 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:2-6-409.2)

COND# 20791 -----

A-94 abating S-4094

The owner/operator of A-94 shall properly maintain and properly operate A-94 at all times of operation of S-4094. (cum inc)

The owner/operator of A-94 shall maintain a minimum operating temperature of 1400F at all times of operation of S-4094. (cum inc)

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# 20944 -----

Application #7948

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

- The owner/operator of S-4292 shall not exceed 8000 barrels throughput in any calendar day as measured by the reactor feed meter. (cum inc)
- 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. (cum inc)
- 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. (2-6-501)

COND# 21165 -----

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. (cum inc)
2. The owner/operator of S-4424 shall not exceed 9.8 pounds POC in any calendar day. (cum inc)
3. The owner/operator of S-4424 shall not exceed any toxic trigger level listed in Table 2-1-316. (2-1-316)
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. (2-1-403)

COND# 21232 -----

Effective 12/1/04

Regulation 9-10 Refinery-Wide Compliance

Affected Sources

- * 1. The following sources are subject to the

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

refinery-wide NOx emission rate and CO
 concentration limits in Regulation 9-10: (9-
 10-301 & 305)

| S# | description | CEM (Y/N,EF) |
|--------|-------------|---------------|
| S-4038 | F-3550 | Y |
| S-4039 | F-3560 | Y |
| S-4040 | F-3570 | Y |
| S-4041 | F-3580 | Y |
| S-4042 | F-550 | Y |
| S-4043 | F-560 | Y |
| S-4044 | F-570 | Y |
| S-4045 | F-580 | Y |
| S-4059 | F-247 | N |
| S-4060 | F-210A/B | N |
| S-4061 | F-410 | Y |
| S-4062 | F-447 | Y |
| S-4068 | F-1610 | N |
| S-4069 | F-1660 | N |
| S-4070 | F-1100A | Y |
| S-4071 | F-1100B | Y |
| S-4072 | F-1160 | Y |
| S-4095 | F-210 | N |
| S-4129 | Blr #1 | NY |
| S-4131 | Blr #3 | NY |
| S-4132 | Blr #4 | NY |
| S-4133 | Blr #5 | NY |
| S-4135 | Blr #7 | NY |
| S-4152 | F-100 | N |
| S-4154 | F-120 | N |
| S-4155 | F-135 | NY |
| S-4156 | F-320 | N |
| S-4158 | F-340 | N |
| S-4159 | F-410 | N |
| S-4160 | F-420 | N |
| S-4161 | F-510 | Y |
| S-4162 | F-520 | Y |
| S-4163 | F-530 | Y |
| S-4164 | F-630 | Y |
| S-4165 | F-620 | Y |
| S-4166 | F-610 | Y |
| S-4167 | F-710 | N |
| S-4168 | F-730 | Y |
| S-4169 | F-731 | Y |
| S-4170 | F-305 | Y |
| S-4171 | F-355 | Y |
| S-4188 | F-651 | N |
| S-4189 | F-661 | N |
| S-4330 | F-1610 | Y |
| S-4331 | F-1310 | Y |

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

| | | |
|--------|--------|---|
| S-4332 | F-1360 | Y |
| S-4333 | F-1750 | Y |
| S-4334 | F-1200 | Y |
| S-4335 | F-1250 | Y |
| S-4336 | F-1410 | Y |
| S-4337 | F-1500 | Y |
| S-4338 | F-1550 | Y |
| S-4339 | F-1110 | Y |

Monitoring Device Installation

* 2. The owner/operator of each source with a maximum firing rate greater than 25 MMBtu/hr 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. (Reg.9-10-502)

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. (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.

~~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. (Reg. 9-10-502)~~

NOx Box Establishment

* 4. The owner/operator shall establish the initial NOx box for each source subject to Part 3 by June 1, 2004. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (9-10-502)The procedure for establishing

IVIII. Permit Conditions~~Source-Specific Generally Applicable Requirements~~

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; 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 is deemed to be valid.
 - 1) The NOx Box can represent/utilize either one or two emission factors.
 - 2) 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 5.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

E. 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

- * 5. Except as provided in part 5B & C, the owner/operator shall operate each source within the NOx Box ranges listed below at all times of operation. This part shall not apply to any source which has a properly operated and properly installed NOx CEM. (9-10-502)

A. NOx Box ranges

Source No.

2

Emission Factor (lb/MMBtu)

0.0256

0.0335

Min O2 at Low Firing

(O2% , MMBtu/hr)

0 , 0

1.3, 57

Max O2 at Low Firing

(O2% , MMBtu/hr)

3.98 , 0

6.0 , 57

Min O2 at High Firing

(O2% , MMBtu/hr)

1.3, 57

1.3, 61

Mid O2 at Mid/High Firing (polygon)

(O2% , MMBtu/hr)

n/a

n/a

Max O2 at High Firing

(O2% , MMBtu/hr)

3.98 , 57

6.0 , 61

The limits listed above are based on a calendar day averaging period for both firing rate and O2%.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

B. Part 5A~~r~~ 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 9-10-301.2 (i.e. units out of service & 30-day averaging data).

C. Part 5A. does not apply during any source test required or permitted by this condition. (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 (9-10-502)

A. 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 ~~replicates~~ **reasonably represents** 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.

1. Source Test \leq Emission Factor

If the results of this source test do not

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

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."

a. 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.

2. 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. 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 9-10-301 for each day the facility was operated in excess of the refinery wide limit.

b. The facility may submit a permit application to request an alteration of the permit condition to change the NOx emission factor and/or adjust the operating range, based on the new test data.

B. Reporting - The owner/operator must report 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~~ on the schedule listed below. The source tests

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

are performed in order to measure NO_x, 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)**

A. Source Testing Schedule

1. Heater < 25 MMBtu/hr

One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.

2. 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)

- 3. 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.**

B. Source Test Results > NO_x 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 6A2 If the owner/operator chooses not to submit an application to revise the emission factor, the owner/operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test.

IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

Periodic Source Testing for Sources w/ NOx CEM

- * 8. For each source listed in Part 1 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 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/hr 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, the 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 1 and 5. 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)

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IVIII. Permit Conditions ~~Source-Specific Generally Applicable Requirements~~

COND# 21237 -----

* 1. Until a throughput limit is established, the owner/operator of S-1514, 3072, and S-3101 shall notify the district in writing of any proposed ~~increases~~ changes in piping and/or pumping associated ~~ed~~ 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. (2-1-234)

~~VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~

APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

~~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 © 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.

**Table VII – Abatement
 Applicable Limits and Compliance Monitoring Requirements**

Abatement Devices (In Table II-B, but not included in Table IV)

A-0054, , A-0094, A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628, A-0917, 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 |
|---|--|--------|-----------------------|--|---------------------------------|------------------------------|--|
| A-0054 Thermal Oxidizer | | | | | | | |
| POC | 8-1-110.3 | Y | | Abatement of emissions >90% of organic carbon for exemption | N/A | N/A | N/A |
| | Condition #16393 and 40 CFR 63 Part CC | Y | | Minimum temperature of 1400 degrees F NOx 0.2 # /MMBtu, CO 0.80 lb/MMBtu, SOx: 0.027 lb/MMBtu, PM 0.01 lb/MMBtu >98% (by weight) emissions reduction | Condition #16393 Part 4 | C | Temperature monitor |
| A-0094 Thermor Kiln Stack Burner | | | | | | | |
| 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 |
| A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628 Thermal Oxidizers | | | | | | | |
| POC | Condition # 8869 Part 1 | Y | | Minimum temperature of 1400 degrees F, minimum VOC destruction efficiency 95% by weight | Condition #8869 Part 2 | C | Temperature monitor |
| A-0917, A-0921, A-0920, A-0922 Carbon Drums | | | | | | | |
| POC | 40 CFR 61 FF | Y | | 95% by weight or greater reduction in total organics, or < 500 ppmv total organics in outlet stream | 40 CFR 61 FF | C | Temperature OVA/FID monitoring |

VII. ~~V~~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 | 9-9-301.3 adjustment pending per 9-9-401.2.2.2 | Y | | 9 ppmv @15% O ₂ (dry) | 9-9-501 | C | NOx CEM |
| NOx | 9-9-301.3 | Y | | 25 ppmv @15% O ₂ (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods | 9-9-501 | C | NOx CEM |
| NOx | NSPS Subpart Db, 60.44b (a)(4) | Y | | 0.2 lb/MMBtu | Condition #1162 Part 8, 12 | C | NOx CEM, fuel gas flow meters, calorimeter on fuel gas |
| | 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 | 6/1/4 | > 80% CO reduction | Condition #1162 Part 12 | C | CO CEM and O ₂ or CO ₂ CEM |
| POC | Condition #1162 Part 11 | Y | 6/1/4 | > 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 |

VII. ~~V~~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 |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------------|
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 | P/E | Visual inspection |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | P/E | Visual inspection |
| | NSPS Subpart GG, 60.333 (b) | Y | | 0.8 % sulfur in fuel by weight | NSPS Subpart GG, 60.334 (b) | P/semi-annual | Fuel analysis |
| | Condition #1162 Part 9 | Y | | 0.05% sulfur in diesel | Condition #1162 part 9 | <u>P/E</u> | Diesel fuel documents |
| H2S | 40 CFR, Subpart J, 60.104(a)(1) | 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) | C | H2S analyzer |
| NH3 | Condition #1162 Part 18 | Y | 6/1/4 | 20 ppm NH3 | BAAQMD 2-6-409.2.2 | P/A | source test |

**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-6039 Flare V-3501

VII. ~~V~~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 |
|-------------------|--|--------------------------|-----------------------|---|--|------------------------------|--|
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 Condition 18656 part 4 (effective 12/1/04) | P/E | Visual inspection, flowmeter and record keeping |
| Opacity | Condition #18656 part 7 3 | 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 6 64 (effective 12/1/04) | P/E | Records |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | condition 18656 parts 3, 4, 5 3, 4, 5 (effective 12/1/04) | P/E | Visual inspection |
| | 6-311 | Y | | emissions based on process weight rate (lb/hour) | condition 18656 parts 3, 4, 5 1 (effective 12/1/04) | P/E | Visual inspection |
| POC | 8-1-110.3 | Y N | | At least 90% destruction of organics for exemption | None | N | N/A flowrate flame composition |
| | Condition #469 | Y | | Smokeless capacity of S-6015 shall not be less than 240,000 lbs/hr | None | N | N/A |
| Through-put Limit | Condition #18137 | N | | See Table IIA | Condition #18137 Part 2 | P/M | Recordkeeping |
| Other Monitoring | | N | 12/4/03 | | BAAQMD Regulation 12-11-501 & 12-11-505 | C | Flow Rate |
| | Condition 18656 Parts 1 & 2 | Y | | Flow meters | Reg. 2-6-409.2 BAAQMD Regulation 12-11-501 | C | Flow rate |

VII. ~~V~~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-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 |
|----------------------------|-------------------------|----------|-----------------------|---|--|------------------------------|---|
| | | N | 9/4/03 | | BAAQMD Regulation 12-11--502.1 & 12-11-505 | P/E | Composition |
| | | N | 3/4/ 3 /04 | | BAAQMD Regulation 12-11-502.3 & 12-11-505 | P/E | Composition |
| Flare Design | 40 CFR 60.18©(3) | Y | | Heat content specification as per ©(3)(ii) and maximum tip velocity specification per ©(4), or 60.18©(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |
| Presence of a Flame | 12-11-503 | 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 |
| Presence of a Flame | 40 CFR 60.18©(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |
| | Condition #13370 | N | | purge and pilot gas flow measurements | BAAQMD Regulation 12-11-504 & 12-11-505 | P/C | Purge and pilot Gas Flow Rate |

VII. ~~V~~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-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 |
|---------------|-------------------|--------|--|-------|---------------------------------|------------------------------|--|
| | | N | 12/4/03 (if video monitor installed by 1/1/03) | | BAAQMD Regulation 12-11-507 | P/C | 1 frame per minute image video recording |
| | | N | 12/4/03 (if any >1E6 SCF/24-hr vent gas flared) | | BAAQMD Regulation 12-11-507 | P/C | 1 frame per minute image video recording |

**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-4093 F-11 Steam Heater Wax Filter Building, S-4094 Air Heater Kiln Thermoform Unit abated by A-0094 Afterburner, 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, S-4402 Salt Furnace

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|--|---------------------------------|------------------------------|-------------------|
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 | N | None |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | N | None |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| | | | | | | | |
|--|---------|---|--|-------------------------|------|---|------|
| | 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None | N | None |
|--|---------|---|--|-------------------------|------|---|------|

VII. ~~V~~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-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-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-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

| 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: #18015 Part 2 S-4070, S-4071, S-4072 #18172 Part 2 S-4042, S-4043, S-4044, S-4045 #18166 Part 2 S-4061, S-4062 | C | CEM |
| NOx | 9-10-301 | N | | Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU | #18003 Part 3 S-4059, S-4060 #17631 Part 3 S-4158 #18350 Part 3 S-4068 | P/semi-annual | Source testing |

VII. ~~V~~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-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-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-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

| 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>9-10-301</u> | <u>N</u> | <u>126/1/04</u> | <u>Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/MMBTU</u> | <u>#21232 parts 4, 5, 6, 7</u> | <u>P/semi-annual</u> | <u>Source testing</u> |
| NOx | 9-10-303 | Y | | Federal interim emissions Refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU | #18172 Part 2 S-4042, S-4043, S-4044, S-4045 #18166 Part 2 S-4061, S-4062 #18015 Part 2 S-4070, S-4071, S-4072 | C | CEM |
| 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. ~~V~~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-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-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-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

| 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 |
| O2 | | Y | 7/1/02 | No limit | 9-10-502 #18015 Part 2 S-4070, S-4071, S-4072 #18172 Part 2 S-4042, S-4043, S-4044, S-4045 #181-6 Part 2 S-4061, S-4062 #469 3b S-4330 – 4339 | C | CEMs |

VII. ~~V~~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-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-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-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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--------------------------------------|--------|-----------------------|--|--|------------------------------|---|
| O2 | | N | 7/1/02 | No limit | #18003 Part 3 S-4059, S-4060 #17631 Part 3 S-4158 #18350 Part 3 S-4068 | P/semi-annual | Source testing |
| O2 | | N | 9/1/04 | No limit | #21232 parts 2 and 4B | C | O2 Monitors and annual accuracy test |
| CO | 9-10-305 #18003 part 4 and part 9 | N | | 400 ppmv (and 200 ppmv for #18003) (dry, 3% O ₂) | #18015 Part 1 S-4070, S-4071, S-4072 #18003 Part 3 S-4059, S-4060 #17631 Part 3 S-4158 #18172 Part 1 S-4042, S-4043, S-4044, S-4045 #18166 Part 1 S-4061, S-4062 #18350 Part 3 S-4068 | P semi-annual | Source testing |

VII. ~~V~~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-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-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-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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| CO | 9-10-305 #21232 | N | | 400 ppmv (and 200 ppmv for #21232) (dry, 3% O ₂) | #21232 parts 4, 7, 8, 9 | P/ semi-annual | Source testing |
| | | | | | | | |

VII. ~~V~~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-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-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-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

| 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 Part 6E | Y | | 332 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, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR, and S-4349] | Condition 469 Part 4a | P/daily | Daily records reported on a monthly basis |

VII. ~~V~~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-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-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-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

| 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 | #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 |
| 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 |
| NOx | 9-10-303 | Y | | Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU | #18003 Part 3 S-4059, S-4060 #17631 Part 3 S-4158 #18350 Part 3 S-4068 | P semi-annual | Source testing |

VII. ~~V~~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-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-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-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

| 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 #18003 Part 6 | | | 0.03 lbs NOx/MMBtu established as an emission factor for this furnace | #18003 Part 3 S-4059, S-4060 | P semi-annual | Source test |
| NOx | Condition #17631 Part 6 | | | 0.035 lbs NOx/MMBtu established as an emission factor for this furnace | #17631 Part 3 S-4158 | P Semi-annual | Source test |
| NOx | Condition #18350 Part 6 | | | 0.14 NOx/MMBtu established as an emission factor for this furnace | #18350 Part 3 S-4068 | P Semi-annual | Source test |
| NOx | 40 CFR 60 Subpart Dc | Y | | | | | |
| NOx | Condition #8773 Part 1a | Y | | 8.85 lb/hr for S-4155 | #8773 Part 1 | C | CEM |
| 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 |

VII. ~~V~~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-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-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-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

| 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 | N | | 400 ppmv (dry, 3% O ₂) | 9-10-502.1 | P/A | Source test |
| CO | Condition #8773 Part 2 | Y | | 50 ppmv [applies to S-4155] | Condition #8773 Part 2 | P/semi-annual | source test |
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | N/A |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| | 6-310.3 | Y | | 0.15 grain/dscf @ 6% O ₂ | None | None | |
| Opacity | 40 CFR 60 Subpart Dc 60.43c© | Y | | 20% opacity; 27% opacity for 6 min/hour | 40 CFR 60.45c(a) | P/E | Visual Inspection |

VII. ~~V~~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-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-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-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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-------------------------------|
| Opacity | 40 CFR 60 Subpart Dc 60.43c© | | | 20% opacity; 27% opacity for 6 min/hour | 40 CFR 60.47c(a) | C | CEM [For residual oil-fueled] |
| SO2 | 40 CFR 60 Subpart Dc 60.42c(d) | Y | | Compliance option: very low sulfur oil (0.5% S) | 40 CFR 60.46c(d) | P/fuel change | Fuel sampling |
| 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 |
| 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. ~~V~~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-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-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-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

| 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 #8773 Part 6 [for S-4155] | Y | | 209 MMBtu/Hr 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 |
| Fuel Flow | Condition #16686 | N | | 78 MMBtu/Hr [applies for S-4044] 398 MMBtu/Hr [applies for S-4070] 405 MMBtu/Hr [applies for S-4071] 336 MMBtu/Hr [applies for S-4072] 24.8 MMBtu/Hr [applies for S-4335] 41 MMBtu/Hr [applies for S-4338] 19 MMBtu/Hr [applies for S-4339] | #16686 Part 1 | P/D | Record-keeping |
| Fuel Flow | Condition #18003 Part 7 | Y | | 121 MMBtu/Hr [applies for S-4059] | #18003 Part 1 | C | Fuel flowmeter |
| Fuel Flow | Condition #18003 Part 8 | Y | | 144 MMBtu/Hr [applies for S-4060] | #18003 Part 1 | C | Fuel flowmeter |

VII. ~~V~~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-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-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-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

| 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 #18015 Part 3 | Y | | 398 MMBtu/Hr [applies for S-4070] 405 MMBtu/Hr [applies for S-4071] 336 MMBtu/hr [applies for S-4072] | #18015 Part 2 | C | Fuel flowmeter |
| Fuel Flow | Condition #17631 Part 7 | Y | | 48 MMBtu/Hr [applies for S-4158] | #17631 Part 1 | C | Fuel flowmeter |
| Fuel Flow | Condition #18172 Part 3 | 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] | #18172 Part 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 | C | Fuel flowmeter |
| Fuel Flow | Condition #18350 Part 7 | Y | | 127.5 MMBtu/Hr [applies to S-4068] | #18350 Part 1 | C | Fuel flowmeter |

VII. ~~V~~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-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-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-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

| 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 Part 6E | Y | | 302 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, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR, and S-4349] | Condition #469 Part 4A | P/Daily | Daily records recorded on a monthly basis |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 | #16698 Part 6 S-4038, S-4039, S-4040, S-4041 #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169 #16679 Part 4 S-4170 #17973 Part 2 S-4171 9-10-502 | C | CEMs |
| NOx | 9-10-301 | N | 7/1/02 | Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU | #17628 Part 3 S-4152, S-4154 #18387 Part 3 S-4159, S-4160 #18391 Part 3 S-4167 | P semi-annual | Source testing |
| <u>NOx</u> | <u>9-10-301</u> | <u>N</u> | <u>126/1/04</u> | <u>Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU</u> | <u>#21232 parts 4,5,6,7</u> | <u>P/semi-annual</u> | <u>Source testing</u> |
| | | | | | | | |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 | #16698 Part 6 S-4038, S-4039, S-4040, S-4041 #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169 #16679 Part 4 S-4170 #17973 Part 2 S-4171 9-10-502 | C | CEMs |
| NOx | 9-10-303 | Y | | Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU | #17628 Part 3 S-4152, S-4154 #18387 Part 3 S-4159, S-4160 #18391 Part 3 S-4167 9-10-502 | P semi-annual | Source testing |
| NOx | Condition #17628 Part 6 | | | 0.035 lbs NOx/MMBtu established as an emission factor for this furnace | #17628 Part 3 S-4152 | P semi-annual | Source test |
| NOx | Condition #17628 Part 7 | | | 0.035 lbs NOx/MMBtu established as an emission factor for this furnace | #17628 Part 3 S-4154 | P semi-annual | Source test |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 #18387 Part 6 | | | 0.033 NOx/MMBtu established as an emission factor for these furnaces | #18387 Part 3 [applies for S-4159, S-4160] | P Semi-annual | Source test |
| NOx | #18391 Part 6 | | | 0.035 NOx/MMBtu established as an emission factor for this furnace | #18391 Part 3 S-4167 | P Semi-annual | Source test |
| O2 | | Y | 7/1/02 | No limit | #16698 Part 6 S-4038, S-4039, S-4040, S-4041 #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169 #16679 Part 4 S-4170 #17973 Part 2 S-4171 9-10-502 | C | CEMs |
| O2 | | | 7/1/02 | No limit | #17628 Part 3 S-4152, S-4154 #18387 Part 3 S-4159, S-4160 #18391 Part 3 S-4167 | P Semi-annual | Source testing |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 |
|----------------|--------------------|--------|-----------------------|--|---|------------------------------|---|
| O ₂ | | N | 12/1/04 | No limit | #21232 parts 2, 4B | C | O ₂ Monitors CEM and annual accuracy test |
| CO | 9-10-305 | N | | 400 ppmv (dry, 3% O ₂) | #16698 Part 1 S-4038, S-4039, S-4040, S-4041 #16731 Part 1 S-4164, S-4165, S-4166, S-4168, S-4169 #16679 Part 7 S-4170 #17973 Part 7 S-4171 #17628 Part 3 S-4152, S-4154 #18387 Part 3 S-4159, S-4160 #18391 Part 3 S-4167 9-10-502 | P Semi-annual | Source testing |
| CO | 9-10-305 #21232 | N | 6/1/04 | 400 ppmv (and 200 ppmv for #21232) (dry, 3% O ₂) | #21232 parts 4, 7, 8., 9 | P/ semi-annual | Source testing |
| | | | | | | | |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 |
|-----------------|--------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-------------------|
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 | N | Visual inspection |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| | 6-310.3 | Y | | 0.15 grain/dscf @ 6% O ₂ | None | N | None |
| NH ₃ | Condition #16679 Part 1 | | | 120 lb NH ₃ /Hr [applies to S-4170] | none | N | None |
| Fuel Flow | condition #16686 #18387 #16731 | N | | 505 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] 847 MMBtu/hr [S-4170] 847 MMBtu/hr [S-4171] | Condition #16686 #18387 #16731 | C | Fuel flowmeter |
| Fuel Flow | Condition #16698 Part 2 | N | | 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] | #16698 Part 4 | C | Fuel flowmeter |
| Fuel Flow | Condition #17628 Part 8 | N | | 50.5 MMBtu/Hr [applies for S-4152] | #17628 Part 1 | C | Fuel flowmeter |

VII. ~~V~~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 applies, but NSPS does not apply:

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-4095 F-210 Slack Wax Furnace Wax Re-Run, 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-4159 F-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 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 #17628 Part 9 | N | | 50.5 MMBtu/Hr [applies for S-4154] | #17628 Part 1 | C | Fuel flowmeter |
| Fuel Flow | Condition #469 | Y | | 47 MMBtu/Hr HHV[applies for S-4159], 45 MMBtu/Hr HHV [applies for S-4160] | #469 | C | Fuel flowmeter |
| Fuel Flow | Condition #16731 Part 3 | | | 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] | #16731 Part 5 | C | Fuel flowmeter |
| Fuel Flow | Condition #16679 Part 9 | | | 847 MMBtu/Hr [applies for S-4170] | #16679 Part 10 | C | Fuel flowmeter |
| Fuel Flow | Condition #17973 Part 3 | | | 847 MMBtu/Hr [applies for S-4171] | #17973 Part 2 | C | Fuel flowmeter |
| Fuel Flow | Condition #18387 Part 7 | | | 68 MMBtu/Hr [applies to S-4159] | #18387 Part 1 | C | Fuel flowmeter |
| Fuel Flow | Condition #18387 Part 8 | | | 71 MMBtu/Hr [applies to S-4160] | #18387 Part 1 | C | Fuel flowmeter |
| Fuel Flow | Condition #18391 Part 7 | | | 145 MMBtu/Hr [applies to S-4167] | #18391 Part 1 | C | Fuel flowmeter |

VII. ~~V~~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 |
|---------------|-----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-------------------|
| NOx | Condition #469 Part 6 E2 | Y | | 30 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 | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 | N | Visual inspection |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| | 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None | N | None |
| 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.4.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
Internal Combustion Engines**

S-4118 P15 FIRE WATER PUMP, S-4119 P16 FIRE WATER PUMP, S-4126 P10 FIRE WATER PUMP, S-4127 #1PP ELECTRICAL GENERATOR, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7510 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-7518 IC ENGINE, S-7520 IC ENGINE, S-7521 IC ENGINE, S-7522 IC ENGINE, S-7523 IC ENGINE, S-7524 IC ENGINE, S-7525 IC ENGINE, S-7526 IC ENGINE, S-7528 IC ENGINE, AND S-7531 IC ENGINE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|--|--|------------------------------|--------------------|
| Opacity | 6-303 | Y | | Ringelmann No. 2 for > 3 minutes in any hour or equivalent opacity | None | N | N/A |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | 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 (applies only to S-7501), 9-8-331 (applies only to S-7501), Condition 20225 | N | | Hours of Operation (applies to S-7501 IC Engine, S-7507 IC Engine, S-7510 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-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only) | 9-8-530 (applies only to S-7501), Condition 20225 | P/M | Recordkeeping |

VII. ~~V~~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 |
|---------------|-------------------|----------|-----------------------|---|--|------------------------------|-----------------------|
| NOx | 9-10-301 | N | 7/1/02 | Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU | Conditions: #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133 9-10-502 | C | CEMs |
| NOx | 9-10-302 | N | | Interim emissions 50% of affected units 0.033 lbs NOx/MMBTU | #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133 9-10-502 | C | CEMs |
| <u>NOx</u> | <u>9-10-301</u> | <u>N</u> | <u>126/1/04</u> | <u>Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU</u> | <u>#21232 parts 4.5.6.7</u> | <u>P/semi-annual</u> | <u>Source testing</u> |
| NOx | 9-10-303 | Y | | Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU | Conditions: #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133 9-10-502 | C | CEMs |
| NOx | 9-10-303 | Y | | Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU | #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133 9-10-502 | P semi-annual | Source testing |

VII. ~~V~~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 |
|---------------|---------------------------------|----------|-----------------------|---|--|------------------------------|--------------------------------------|
| O2 | | Y | 7/1/02 | none | 9-10-502 #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133 | C | CEMs |
| O2 | | N | 126/1/04 | No limit | #21232 parts 2, 4B | C | CEMs and annual accuracy test |
| CO | 9-10-305 | N | | 400 ppmv (dry, 3% O ₂) | 9-10-502.1 #16650 Part 5 S-4129, S-4131 #17675 Part 2 S-4132, S-4135 #18029 Part 1 S-4133 | P Semi-annual | Source tests |
| CO | 9-10-305 #21232 | N | 126/1/04 | 400 ppmv (and 200 ppmv for #21232) (dry, 3% O₂) | #21232 parts 4,7,8,9 | P/ semi-annual | Source testing |
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | N/A |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| | 6-310.3 | Y | | 0.15 grain/dscf @ 6% O ₂ | None | N | None |
| Fuel flow | Condition #16650 Part 2 | | | 5592 MMBtu/day =233 MMBtu/hr [applies to S-4129 only] | #16650 Part 1 | C | Fuel flowmeter |
| Fuel flow | Conditions #16650 Part 3 #16686 | | | 5664 MMBtu/day =236 MMBtu/hr [applies to S-4131 only] | #16650 Part 1 | C | Fuel flowmeter |
| Fuel flow | Conditions #17675 Part 3 #16686 | | | 5640 MMBtu/day =235 MMBtu/hr {applies to S-4132 only] | #17675 Part 1 | C | Fuel flowmeter |

VII. ~~V~~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 |
|---------------|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Fuel flow | Condition #18029 Part 3 #16686 | | | 5688 MMBtu/day =237 MMBtu/hr [applies to S-4133 only] | #18029 Part 2 | C | Fuel flowmeter |
| Fuel flow | Condition #17675 Part 4 | | | 6528 MMBtu/day =272 MMBtu/Hr [applies to S-4135 only] | #17675 Part 1 | C | Fuel flowmeter |

**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 | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | N/A |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| | 6-310 | 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 | Record Keeping (Daily throughput) |
| Refinery Cap | Condition #469 | Y | | | | | |

VII. ~~V~~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 | A | Vapor tightness test |
| VOC | 8-7-301.10 | N | | 98% or highest vapor recovery rate specified by CARB | Regulation 8-7-304 Regulation 8-7-503 CARB State Exec Order G-70-138 | P/6 months | Recordkeeping and CARB certification testing |
| VOC | None | | | None | BAAQMD Regulation 8-7-302.14 | A | Backpressure test |
| VOC | 8-7-313.1 | N | | Fugitives ≤ 0.42 lb/1000 gallons dispensed | 8-7-503 | P/6 months | Recordkeeping and CARB certification testing |
| VOC | 8-7-313.2 | N | | Spillage ≤ 0.42 lb/1000 gallons dispensed | 8-7-503 | P/6 months | Recordkeeping and CARB certification testing |
| VOC | 8-7-313.3 | N | | Liquid Retain + Spitting ≤ 0.42 lb/1000 gallons dispensed | 8-7-503 | P/6 months | Recordkeeping and CARB certification testing |
| | None | N | | None | 8-7-503 | P/A | Recordkeeping |
| VOC | SIP 8-7-301.2 | Y | | 95% recovery of gasoline vapors | 8-7-503 | P/6 months | Recordkeeping and CARB certification testing |
| | Condition #710 | Y | | Flowrate limit of 8.0 – 8.6 gpm | None | N | N/A |
| | Condition #711 | Y | | Vapor flowrate limit of 17.2 gpm max | None | N | N/A |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**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
 Applicable Limits and Compliance Monitoring Requirements**

Wax

S-4239 Main Tank Car Loading Rack

| 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 | 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 |
| Refinery Cap | Condition #469 | Y | | | | | |

VII. ~~V~~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 |
|---------------|-----------------------|--------|-----------------------|--|--|------------------------------|--|
| POC | 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 | 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 | 8-44-301.2 & 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 | 8-44-303 | Y | | Leak free and gas tight | 40 CFR 63 563(a)(4) | P/E | Leak test |
| Refinery cap | Condition #469 | Y | | | | | |
| Throughput | Condition #18137 | N | | Throughput limits | Condition #18137 | P/M | Recordkeeping |

VII. ~~V~~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 #3 Cat, S-4078 WRR, 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 MTBE/ALTA,
 S-6054 #2 Wax Deoiler, S-6055 Wax Finishing Plant**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------------|--------|-----------------------|--|------------------------------------|------------------------------|---------------------------------------|
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | P/M | Measurement of total dissolved solids |
| FP | 6-305 | Y | | Visible Particulates | 6-601 | P/E | Visual Inspection |
| FP | 6-311 | Y | | 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 |
| TDS | Condition #14596 Part 2 | Y | 6/1/4 | For S-6051, TDS < 2000 ppm (wt) averaged over any consecutive 30-day period | Condition #14596 Part 3 | P/M | monthly tests of TDS |
| | Condition #10597 Part 2 | Y | 6/1/4 | For S-6054, TDS < 1000 ppm (wt) averaged over any consecutive 30-day period | Condition #10597 Part 3 | P/M | monthly tests of TDS |
| | Condition #10598 Part 2 | Y | 6/1/4 | For S-6055, TDS < 1000 ppm (wt) averaged over any consecutive 30-day period | Condition #10598 Part 3 | P/M | monthly tests of TDS |
| POC | Condition 14596 Part 1 | Y | 6/1/4 | For S-6051, POC < 23.7 lb/day averaged over any consecutive 30-day period | Condition #14596 Part 3 | P/M | monthly tests of POC |
| | Condition #10597 Part 1 | Y | 6/1/4 | For S-6054, HC emissions < 2.5 lb/day averaged over any consecutive 30-day period | Condition #10597 Part 3 | P/M | monthly tests of POC |
| | Condition #10598 Part 1 | Y | 6/1/4 | For S-6055, HC emissions < 2.5 lb/day averaged over any consecutive 30-day period | Condition #10598 Part 3 | P/M | monthly tests of POC |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|
|---------------|-------------------|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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

| 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 12,000 barrels/operating day Applies to S-4341 not to exceed 10,000 barrels/operating day Applies to S-4342 not to exceed 18,500 barrels/operating day Applies to S-4343 not to exceed 5,000 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|-----------------------------------|---------------------------------|------------------------------|-----------------|
| | 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 | #18337 | P/D | Record Keeping |
| | Condition #20944 | N | | Applies to S-4292 | #20944 | P/D | Record Keeping |
| | Condition #6001 | Y | | Applies to S-4286 | | | |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--------------------------|--------|-----------------------|-----------------|---------------------------------|------------------------------|-----------------|
| | Condition # 16393 part 1 | Y | | Applies to A-54 | Condition #16393 part 6 | C | Flow meter |
| NOx | Condition 8773 part 1 | Y | | 8.85 #/hr | #8773 part 1 | C | CEM |
| NOx | Condition #16393 part 2 | Y | | 0.2 #/MMBtu | Condition #16393 part 5 | P/initial source test | Source test |
| CO | Condition 8773 part 2 | Y | | 50 ppm CO | #8773 part 2 | P/initial source test | Source test |
| CO | Condition #16393 | Y | | 0.8 #/MMBtu | #16393 part 5 | 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units
 Applicable Limits and Compliance Monitoring Requirements**

Miscellaneous Process Units

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-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, 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

| 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 #15698, Regulation 8-2 | Y | | Applies to S-4250 Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average, water temp <80F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gpm, water/vent flow ratio >11.6 | #15698 Regulation 8-2 | P/M | Recordkeeping |
| POC | Condition #16393 part 3 | | | 1400F min for A-54 | Condition #16393 part 4 | C | Temperature monitor |
| SOx | Condition #16393 part 2 | Y | | 0.027 #/MMBtu | #16393 part 5 | P/initial source test | Source test |
| PM | Condition #16393 part 2 | Y | | 0.01 #/MMBtu | #16393 part 5 | P/initial source test | Source test |

VII. ~~V~~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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------------|--------|-----------------------|---|----------------------------------|------------------------------|-----------------|
| Opacity | 6-302 | Y | | Opacity shall not exceed 20% for more than 3 minutes in any hour | 6-502 | C | Opacity monitor |
| Opacity | 6-304 | | | 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. | 1-520.5 | C | Opacity monitor |
| | 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) | C | Opacity monitor |
| FP | 6-310 | Y | | 0.15 grain/dscf | #11066 Part 7a | P/Q | Source test |
| FP | 6-311 | Y | | 40 ^{lb} /hr particulate hr | #11066 Part 7a | P/Q | Source test |
| 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 generator | #11066 Part 7a | P/Q | Source test |

VII. ~~V~~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

| 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 3 | Y | | 92 TPY TSP [applicable to S-4285] | #11066 Part 7a | P/Q | Source test |
| 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 | 6/1/04 | Removal and recovery of 95% of H2S in refinery fuel gas and 95% of H2S in process water streams on a refinery-wide basis | #18655 | P/A | Source test at S-4227-9 |
| SO2 | SIP 9-1-313.2 | Y | 6/1/04 | 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 | #18655 | P/A | Source test at S-4227-9 |
| 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 60.106(l)(12) | C | Calculated stoichiometrically from SO2 CEM, & process monitoring for air inlet rate to regenerator |

VII. ~~V~~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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|---|------------------------------|--|
| SOx | Cleaner Fuels Project FCC Mod. Condition #11066 Part 3 | | | 2199.4 TPY [applicable to S-4285] | #11066 Part 10a | C | CEMs |
| SO2 | Cleaner Fuels Project FCC Mod. Condition #11066 Part 4 | | | 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 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 | 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) | Y | | 500 ppmv | 40 CFR 60 Subpart J 60.105(a)(2) | C | CO monitor |
| CO | Cleaner Fuels Project FCC Mod. Condition #11066 Part 3 | Y | | 258.4 TPY [applicable to S-4285] | #11066 Part 9 | C | CEMs |

VII. ~~V~~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

| 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 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 |
| 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 MBPD average over any calendar day [applicable to S-4285] | #11066 Part 11 | P/D | Recordkeeping |
| 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 5 | 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 |
| 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 |
| 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 |

VII. ~~V~~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

| 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 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 |
| 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 | <u>C</u> | Monitor/alarm set at 200 milliamps |

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 | 6/1/4 | 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. Record Keeping |
| | 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 | P/E | Record Keeping |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------|-------------------|--------|-----------------------|--|---------------------------------|------------------------------|--|
| 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 |
| SO ₂ | 9-1-302 | Y | | Gas stream in excess of 300 ppm (dry) | | P/E | Fuel sampling to demonstrate compliance with 9-1-302 at facilities without an approved SO ₂ GLM network any time that the GLM's are not operating |
| 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(g) | P/SA | Report |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 <u>S-4155 SDA Furnace and wharf</u> | 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 <u>S-4155 SDA Furnace and wharf</u> | Condition #469 | P/M | Monthly records |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 <u>S-4155 SDA Furnace and wharf</u> | 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 <u>S-4155 SDA Furnace and wharf</u> | Condition #469 | P/M | Monthly records |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 <u>S-4155 SDA Furnace and wharf</u> | 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 <u>S-4155 SDA Furnace</u> | Condition #469 | P/M | Monthly records |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 <u>S-4155 SDA Furnace</u> | 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 <u>S-4155 SDA Furnace</u> | Condition #469 | P/M | Monthly records |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery
 Applicable Limits and Compliance Monitoring Requirements**

Refinery

| 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 <u>S-4155 SDA Furnace</u> | 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 <u>S-4155 SDA Furnace</u> | Condition #469 | P/M | Monthly records |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| Table VII.E.1.1 Sulfur Recovery Applicable Limits and Compliance Monitoring Requirements | | | | | | | |
|---|-------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| <u>H2S Plants</u> | | | | | | | |
| 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) | | | | | | | |
| 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 | 6/1/04 | 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 | #18655 Part 1 | P Annual | Source test |
| SO2 | SIP 9-1-313.2 | Y | 6/1/04 | 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; | #18655 Part 1 | P Annual | Source test |
| 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 |

~~VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227, S-4228, S-4229

| 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 | 6/1/04 | 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 | Condition #18655 Part 1 | P Annual | Source test |
| | SIP 9-1-313.2 | Y | 6/1/04 | 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 | Condition #18655 Part 1 | P Annual | Source test |
| | Condition 469 | Y | | Emission limits | Condition 469 | P/M | Recordkeeping |
| Opacity | 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | 6-601 | P/E | Visible inspection |
| FP | 6-310 | Y | | 0.15 grain/dscf | None | P/E | Visible <input type="checkbox"/> nspection |
| FP | 6-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | None | P/E | Visible <input type="checkbox"/> nspection |
| NH3 | 9-1-313.2 | Y | 6/1/04 | Removal of 95% of ammonia in process water streams | #18655 | P/A | Source test for S-4227-9 |
| NH3 | SIP 9-1-313.2 | Y | 6/1/04 | Removal of 95% of ammonia in process water streams | #18655 | P/A | Source test for S-4227-9 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Claus Units

S-4227, S-4228, S-4229

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------------|--------|-----------------------|---|---------------------------------|------------------------------|--------------------------------------|
| SO3, H2SO4 | 6-330 | Y | 6/1/04 | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 | #18655 Part 2 | P Annual | District-approved source test method |
| H2S | Condition #19063 part 4 | N | 6/1/4 | 10 ppmv H2S | 9-1-313.2 | P/A | Source Test |
| Refinery Cap | Condition #469 | Y | | Emission limits | Condition #469 | P/M | Record keeping |
| Through put | Condition #19063 part 1 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/D | Recordkeeping |
| Through put | Condition #19063 part 1 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/A | Recordkeeping |
| Through put | Condition #19063 part 2 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/D | Recordkeeping |
| Through put | Condition #19063 part 2 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/A | Recordkeeping |
| Through put | Condition #19063 part 3 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/D | Recordkeeping |
| Through put | Condition #19063 part 3 | N | | Long tons of Sulfur | Condition #19063 part 5 | P/A | Recordkeeping |

**Table VII.E.3.1 Sulfur Recovery
 Applicable Limits and Compliance Monitoring Requirements**

Sulfur Racks

S-3140 Sulfur Storage Tank (S-3140 also in Cluster 01b), S-3141 Sulfur Storage Tank, S-4396 Sulfur Loading Racks all abated by A-0043 Vent Water Scrubber

| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.1 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Cluster 01a**

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-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

External Floating Roof Tank Cluster 01a

S-3185

Internal Floating Roof Tank Cluster 01a

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 | Regulation 8-5-117 | Y | 6/1/4 | The vapor pressure of material stored shall be less than 0.5 psia. | Regulation 8-5-117 And condition #20773 | P/E | Vapor pressure monitoring upon stock change |
| NSPS Kb | Volatile Organic Liquid Storage Vessels MONITORING FOR RECORDKEEPING ONLY | | | | | | |
| VOC | 60.116b ©© | Y | | True vapor pressure determination | 60.116b (e) | Periodic initially and upon change of service | Calculate |
| Condition #11024 | | N | | | | 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 |

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-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1431, S-1427, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1908, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also included in Table VIII.E.3.1), S-3142, S-3146, S-3148, S-3310

Internal Floating Roof Tanks Cluster 01b

S-0328, S-1634, S-3147

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

| 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 | Regulation 8-5-117 | Y | 6/1/4 | The vapor pressure of material stored shall be less than 0.5 psia. | Regulation 8-5-117 And condition #20773 | P/E | Vapor pressure monitoring upon stock change | |
| 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 | Condition #4233 part 1 | N | | Applies to S-1911, 1913, 1914, 2917, 2918, 1908, 1915, 1919, 2920, 2921 | Applies to S-0957, S-1653, S-3140, S-3127 | P/M | Recordkeeping | |
| Condition #11436 | | N | | | Applies to S-1653 | P/M | Recordkeeping | |
| Throughput | | N | | | None | P/A | Recordkeeping | |
| Throughput | | N | | | Applies to S-1052 | Condition #10967 part 3 | P/M | Recordkeeping |
| Throughput | | N | | | Applies to S-957 | Condition #11228 part 4 | P/D | Recordkeeping |

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

**Table VII.F.1.3 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks Cluster 02**

S-0021, S-0660, S-6066

| 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) (11/27/02) | | | | | | |
| 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 [ressure 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, 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 | Condition #11193, 40 CFR 61 Subpart FF | Y | | Part 1 – 12 apply to S-0605 and S-0610. Minimum VOC destruction removal efficiency: 95% by concentration weight or outlet < 500 ppmv organics | #11193 Part 9 Applies to S-660, S-6066 | P/M | FID |
| Condition #18137 | | N | | | Applies to S-0021, S-6066 | | |

**Table VII.F.1.4 Tanks
 Applicable Limits and Compliance Monitoring Requirements
Fixed Roof Tanks 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)

VII. ~~V~~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 |
|---------------------|---|--------|-----------------------|--|--|---|---------------------|
| Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS | | | | | | |
| VOC | 8-5-306 | Y | | Control device standards; includes 95% efficiency requirement | 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 |
| 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 |
| HAP (Benzene) | 61.349(h) | Y | | Control device standards | 61.354 ©, (d), (e) | Continuous check daily | Specified parameter |
| Condition #11193 | | N | | | Applies to S-0605 | P/M | Recordkeeping |
| Condition #10761 | | N | | | Applies to S-6200 through S-6219 | P/M | Recordkeeping |
| Throughput | Condition #18137 | N | | Throughput limits | Condition #18137 | P/M | Recordkeeping |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.5 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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

| 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 |
| 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 | Condition #13597 | Y | | | Applies to S-1798 | P/M | Recordkeeping |
| Throughput Condition #3697 | 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.6 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Internal Floating Roof Tank 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.7 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Fixed Roof Tanks Cluster 13

S-1726, S-1727, S-1757, S-1758

| 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 [ressure 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, 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 | Not specified P/A | MOP Volume IV ST-4 |
| 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 |

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

**Table VII.F.1.8 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Fixed Roof Tanks Cluster 16

S-9302, S-9303

| 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 | | Requirements for P/V valves | 8-5-403 | P/SA | Visual inspection |
| VOC | 8-5-303.2 | Y | | P/V valves must be gas tight: <500 ppm (as methane) above background | 8-5-403, 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 | | 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.1.9 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks 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 (11/27/02) | | | | | | |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.9 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks 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 |
|---------------|--|--------|-----------------------|--|---|---|---|
| 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(a 2) | Y | | Inspection of secondary seals for holes, tears, or detachment | 60.113b(a2) | P/A | Seal inspection and records |
| Throughput | Condition #18137 | N | | Throughput limits | Condition #18137 | P/M | Recordkeeping |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.9 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

External Floating Roof Tanks 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 |
|---------------|--------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------------------|
| 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 |

**Table VII.F.1.10 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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-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 (11/27/02) | | | | | | |
| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.10 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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-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 | 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 |
| 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 | 60.11©© | Y | | True vapor pressure determination | 60.116b (e) | Periodic initially and upon change of service | Calculation |
| VOC | 60.113b(a 2) | Y | | Inseption of secondary seals for holes, tears, or detachment | 60.113b(a2) | P/A | Seal inspection and records |
| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.10 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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-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 #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, part 1 | Y | | throughput shall not exceed 4,000,000 barrels during consecutive 12-month period | Condition #8252, part 4 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 |
| 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 700,000 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 | Condition # 18702 part 1 | Y | | Throughput limit for S-3225 | Condition #18702 part 3 | P/M | Recordkeeping |
| Throughput | Condition #18137 | N | | Throughput limits | Condition #18137 | P/M | Recordkeeping |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| <p align="center">Table VII.F1.11 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks Cluster 24</u> S-1635, S-1637</p> | | | | | | | |
|---|--|--------|-----------------------|--|---|--------------------------------------|--|
| 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 (11/27/02) | | | | | | |
| 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| <p align="center">Table VII.F1.11 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks Cluster 24</u> S-1635, S-1637</p> | | | | | | | |
|---|--|--------|-----------------------|--|---------------------------------|---|----------------------------------|
| 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 | <p align="center">Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR IFRTs</p> | | | | | | |
| VOC | 60.113b (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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| <p align="center">Table VII.F1.11 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Internal Floating Roof Tanks Cluster 24</u> S-1635, S-1637</p> | | | | | | | |
|---|---------------------------------|--------|-----------------------|--|--|---|-----------------------------|
| 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(a2) | Y | | Inseption of secondary seals for holes, tears, or detachment | 60.113b(a2) | P/A | Seal inspection and records |
| VOC | 60.116b © | Y | | True vapor pressure determination | 60.116b (e) | Periodic initially and upon change of service | Calculate |
| Throughput | <u>Condition #15671, part 1</u> | N | | <u>throughput of non-exempt stocks shall not exceed 2,000,000 barrels during consecutive 12-month period</u> | <u>Condition #15671, part 4</u> <u>S-3213</u> | P/M | Recordkeeping |
| Condition #15671 | Applies to S-1635 | | | | | P/M | Recordkeeping |
| Condition #18137 | Throughput limits | | | | | P/M | Recordkeeping |

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

| Table VII.F.1.12 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Fixed Roof Tanks 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 (11/27/02) | | | | | | |
| 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 [ressure 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, 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 | Not specified P/A | MOP Volume IV ST-4 |
| 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) | Not specified P/E | Method 21 |
| VOC | 60.112b (a)(3)(ii) | Y | | Control device standards; includes 95% efficiency requirement, or a flare per 60.18 | 60.113b ©(2) & (d) | P/D | <u>FID</u> <u>Continuous temperature monitor</u> |
| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| Table VII.F.1.12 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Fixed Roof Tanks 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) | 61.345 (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 | |
| 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 ©, (d), (e) | 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.13 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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

| 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 (11/27/02) | | | | | | |
| 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 |
| Refinery MACT | 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 |
| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.13 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

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

| 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)(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 |
| 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 | |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.14 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Internal Floating-Roof Tanks 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 (11/27/02) | | | | | | |
| 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. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.14 Tanks
 Applicable Limits and Compliance Monitoring Requirements**

Internal Floating-Roof Tanks 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 | |
| Condition #18137 | Throughput limits | | | | | | P/M | Recordkeeping |

**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, S-6061 Alkane Groundwater Treatment Unit

| 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 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.] | | | | | | |
| OC | 8-8-112 | Y | | Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants | 8-8-502 | Periodic initially & semiannually | Sample analysis |

VII. ~~V~~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, S-6061 Alkane
 Groundwater Treatment Unit**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------|---|--------|-----------------------|---|---------------------------------|--------------------------------|------------------------------------|
| OC | 8-8-114 | Y | | Monitoring wastewater bypassing oil-water separator or DAF | 8-8-501 | Periodic upon occurrence | 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 ©(2) | Y | | Benzene concentration for waste streams that are exempt under this provision | 61.342 ©(2) | Periodic monthly | Sample analysis |
| Wastewater (Benzene) | 61.342 ©(3)(i) | Y | | Flow rate for process wastewater streams that are exempt under this provision | 61.342 ©(3)(i) | Periodic annually | Flow measurement |
| Wastewater (Benzene) | 61.342 ©(3)(ii) | Y | | 2 Mg/yr benzene quantity (BQ) limit | 61.342 ©(3)(ii) | Periodic annually | Flow measurement & sample analysis |
| Wastewater (Benzene) | 61.342 (d) | Y | | 1 Mg/yr benzene quantity (BQ) limit | 61.342 (d) | Periodic annually | Flow measurement & sample analysis |
| 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 |

VII. ~~V~~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, S-6061 Alkane
 Groundwater Treatment Unit**

| 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) | 61.345 (a)(1)(i)(C) | Y | | Standards for systems operated under negative pressure | 61.345 (a)(1)(i)(C) | Continuous | System pressure |
| Wastewater (Benzene) | 61.348 (a)(1)(i) | Y | | Benzene concentration exiting the treatment process | 61.354 (a)(1) | Periodic monthly | Sample analysis |
| Wastewater (Benzene) | 61.348 (a)(1)(ii) | Y | | ALTERNATIVE 99% benzene removal | 61.354 (a)(2) | Continuous check daily | Parameter |
| Wastewater (Benzene) | 61.348 (a)(1)(iii) | Y | | ALTERNATIVE 99% benzene destruction by incineration | 61.354 (a)(2) | Continuous check daily | Parameter |
| Wastewater (Benzene) | 61.348 (b) | Y | | 1 Mg/yr benzene quantity (BQ) limit | 61.354 (b) | Periodic monthly | Flow measurement & sample analysis |
| 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 |
| 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.2 Wastewater
 Applicable Limits And Compliance Monitoring Requirements**

Wastewater Cluster 20d

Process Drains not Subject to QQQ

| 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 INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS 8-8 has no monitoring requirements | | | |
| 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
 Applicable Limits and Compliance Monitoring Requirements**

Process Drains Cluster 20q

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

| 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 INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS Regulation 8-8 has no monitoring requirements. | | | |
| 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. | | | |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

Process Drains Cluster 20g

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

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|---|---------------------------------|--|-------------------|
| VOC | 60.692-2 (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 ©(1) | Y | | Sewer lines shall be covered or enclosed | 60.692-2 ©(2) | Periodic initially, plus semiannually | Visual inspection |

**Table VII.G.1.4 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

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 |
|---------------------|---|--------|-----------------------|---|---------------------------------|-----------------------------------|-----------------------------------|
| Regulation 8 Rule 8 | Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS | | | | | | |
| VOC | 8-8-114 | Y | | Monitoring wastewater bypassing oil-water separator or DAF | 8-8-501 | Periodic upon occurrence | Sample analysis |
| VOC | 8-8-301.1 | Y | | ALTERNATIVE Gasketed fixed cover standards; including gap limitation | 8-8-503 | Periodic initially & semiannually | Measurement and visual inspection |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.4 Wastewater
 Applicable Limits and Compliance Monitoring Requirements**

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 |
|---------------------------------|---|--------|-----------------------|--|---------------------------------|---|-----------------------------------|
| VOC | 8-8-301.2 | Y | | ALTERNATIVE Floating cover standards (< 300 gpm); includes seal gap limits | 8-8-503 | Periodic initially then every 5 years for primary, annually for secondary | Measurement and visual inspection |
| VOC | 8-8-301.3 8-8-302.3 | Y | | Vapor recovery system standards; includes 95% efficiency requirement | 8-8-602 8-8-503 | Not specified P/E | ST-7 or method 25 or 25A |
| VOC | 8-8-302.1 | Y | | ALTERNATIVE Vapor tight full contact fixed cover standards | 8-8-603 8-8-503 | Not specified P/E | Method 21 |
| VOC | 8-8-302.2 | Y | | ALTERNATIVE Floating cover standards (≥ 300 gpm); includes seal gap limits | 8-8-503 | Periodic initially then every 5 years for primary, annually for secondary | Measurement and visual inspection |
| VOC | 8-8-302.3 | Y | | Vapor tight fixed cover standards (in addition to vapor recovery) | 8-8-603 8-8-503 | Not specified Periodic initially & semiannually | Method 21 |
| VOC | 8-8-302.4 | Y | | ALTERNATIVE Gasketed fixed cover standards; includes 1,000 ppm leak standard | 8-8-603 8-8-503 | Periodic initially & semiannually | Method 21 |
| VOC | 8-8-303 | Y | | Gauging and sampling devices vapor tight | 8-8-603 | P/A | Method 21 |
| Condition #18137 | Applies to S-4148, S-4413, S-4414 | | | | | | |
| 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.] | | | | | | |

VII. ~~V~~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-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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) | 61.343 (a)(1)(i)(C) | Y | | Standards for systems operated under negative pressure | 61.343 (a)(1)(i)(C) | Continuous | System pressure |
| HAP (Benzene) | 61.349 (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 < 20 ppmv organics dry basis, 3% O ₂ 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 ©, (d), (e) | Continuous check daily | Specified parameter |
| HAP (Benzene) | Condition #11193, Part 9 | Y | | annual average liquid benzene concentration shall not exceed 250 ppm by weight | Condition #11193, Part 11 S-605 | P/semi-annual | sampling and analysis |

VII. ~~V~~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-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,
 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) | Condition #11193, part 10 | Y | | annual average liquid benzene concentration shall not exceed 250 ppm by weight | Condition #11193, Part 11 | P/semi-annual | sampling and analysis |
| POC | 40 CFR 61 Subpart FF | Y | | Minimum VOC destruction removal efficiency 95% by concentration weight or outlet < 500 ppmv organics | 61-349 condition #11193 part 9 | P/E | Carbon Changeout |
| POC | Condition #11193, Part 8 | Y | | 95% overall abatement efficiency at A-607 | Condition #11193, Part 9 S-605 and S-610 | P/M | FID measurement |
| Throughput | Condition #11193, Part 1 | Y | | throughput for S-605 and S-6011 shall not exceed 84.1 million gallons for any consecutive 12-month period | Condition #11193, Part 12 S-605 and S-6011 | P/M S-605 and 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. ~~V~~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 |
|-------------------------|---|--------|-----------------------|--|---------------------------------|---|-----------------------------------|
| SIP Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS | | | | | | |
| VOC | 8-5-320 | Y | | Deck fitting closure standards; includes gasketed covers | 8-5-402 | Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age | Visual inspection |
| VOC | 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | 8-5-401 | Periodic initially & at 5 or 10 yr intervals, depending upon rim seal age | Measurement and visual inspection |
| VOC | 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | 8-5-402 | Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age | Measurement and visual inspection |
| VOC | 8-5-328 | Y | | Tank degassing | 8-5-502 8-5-404 | P/A | Source Test |
| 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)(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 |

VII. ~~V~~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 |
|---------------------------------|---|--------|-----------------------|--|---------------------------------|---|-----------------|
| VOC | 60.116b © | Y | | True vapor pressure determination | 60.116b (e) | Periodic initially and upon change of service | Calculation |
| 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 ©(2) | Y | | Benzene concentration for waste streams that are exempt under this provision | 61.342 ©(2) | Periodic monthly | Sample analysis |
| Throughput | Condition #18137 | N | | Throughput limits | Condition #18137 | P/M | Recordkeeping |

**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 |
|---------------------------------|---|--------|-----------------------|--|---------------------------------|-----------------------------------|--------------------------------|
| BAAQMD Regulation 8-8 | Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS | | | | | | |
| VOC | 8-8-112 | Y | | Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants | 8-8-502 | Periodic 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

**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 |
|-------------------|--------------------------|--------|-----------------------|------------------------|---------------------------------|------------------------------|-----------------|
| Odorous Emissions | Condition #15698 part 11 | N | | Odorous Emission limit | Condition #15698 part 11 | P/E | Odor detection |

**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 |
|------------------------------------|--|--------|-----------------------|--|---------------------------------|-----------------------------------|-------------------|
| Regulation 8 Rule 8 | Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS CONTAINERS EXEMPT FROM CONTROLS | | | | | | |
| VOC | 8-8-112 | Y | | 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 | Y | | 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) | 61.345 (a)(1)(i)(C) | Y | | Standards for systems operated under negative pressure | 61.345 (a)(1)(i)(C) | Continuous | System pressure |

VII. ~~V~~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 (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(h) | Y | | Control device standards | 61.354 ©, (d), (e) | Continuous check daily | 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
 Applicable Limits and Compliance Monitoring Requirements**

Cold Cleaners

S-4420 (Exempt), S-4426, 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

| | | | | | | | |
|-------------|-------------------------|---|--|--|---------------|-----|----------------|
| 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 |
| Through-put | Condition #18137 | N | | Table II-A | #18137 Part 2 | P/M | Recordkeeping |

VII. ~~V~~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 | 8-18-301 | Y | | General equipment leak ≤ 100 ppm | None | N/A | Inspection |
| POC | 8-18-302 | Y | | Valve leak ≤ 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 ≤ 500 ppm | 8-18-401.2 | P/Q | Inspection |
| POC | 8-18-304 | Y | | Connection leak ≤ 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 ≤ 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 ≤ 500 ppm | 8-28-402 | E | Inspection |
| POC | 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 | PE | record keeping |
| POC | 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 | 8-18-306.3.3 | Y | | Total valve, pressure relief, pump or compressor leaks ≥ 15 lb/day, they must be repaired within 7 days | 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 |

VII. ~~V~~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 | 8-28-304 | N | | 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. | 8-28-405 | P/release per 5 calendar years | Record keeping |
| | | | | 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©(2) | P/initially and semi-annually | Visual/physical inspection |
| | 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 | Repair the closed system to eliminate any emissions detected as soon as possible, but no later than after emissions are detected within 30 days from the date the emissions are detected |
| 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 |

VII. ~~V~~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 | 60.482-2(e) | Y | | Designated "No detectable emissions" \leq 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 \geq 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 \geq 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 \geq 10,000 ppm; 2 successive months w/o leaking | 60.482-7(a), (b), and (c) | P/Q | Measure for leaks and record keeping |
| 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 |

VII. ~~V~~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 | 60.482-8 (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) | NC | 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) | NC | Temperature 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 |
| 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 | 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 \geq 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" \leq 500 ppm | 61.242-2(e)(3) | P/A | Measure for leaks |

VII. ~~V~~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(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 \geq 500 ppm above background | | P | Measure for leaks |
| POC | 61.242-4(b) | Y | | Pressure relief valve (gas/vapor) leak \geq 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 \geq 10,000 ppm | 61.242-7(a) | P/M | Measure for leaks and record keeping |
| POC | 61.242-7(b) and (c) | Y | | Valve leak \geq 10,000 ppm; 2 successive months w/o leaking | 61.242-7(b) and (c) | P/Q | Measure for leaks |
| POC | 61.242-7(f) | Y | | Designated "No detectable emissions" \leq 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 \geq 10,000 ppm | 61.242-8(a) | P/E | Measure for leaks |

VII. ~~V~~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 | 61.242-11 (b) | Y | | Closed-vent systems and control devices: Vapor recovery systems $\geq 95\%$ | 61.242-11(e) | N/C | Temperature Monitoring |
| POC | 61.242-11 (c) | Y | | Combustion devices $\geq 95\%$ destruction efficiency or ≥ 0.50 seconds and $\geq 760^\circ\text{C}$ | 61.242-11(e) | N/C | Temperature 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 $\geq 10,000$ 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 | 61.349 | Y | | Standards for closed vent systems and control devices | 61.349(f) and 61.354(c) | P/M | Sampling and record keeping |
| POC | 61.349(g) | Y | | Repair any detectable emissions within 15 calendar days after the emissions are detected | 61.349(g) | P/E | Recordkeeping |
| POC | 61.349(a)(2) | Y | | Design and operation of control device | 61.354 | C | Temperature Monitor |
| POC | Condition #8869 part 1 | Y | | Applies to A-620 through A-626 and A-414 95% by weight reduction of VOCs and minimum temp of 1400F | Condition #8869 part 2 and 3 | 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 |

VII. ~~V~~Applicable Limits and Compliance Monitoring Requirements

Table VII.H.3.1 VOC Sources

Applicable Limits and Compliance Monitoring Requirements

Paint Booth
S-4410, S-4424

| 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/y 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/y | 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 |

VIII.VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|------------------------|---|--|
| 6-301 | Ringelmann No. 1 Limitation | Manual of Procedures, Volume I, Evaluation of Visible Emissions |
| 6-304 | Tube Cleaning | Manual of Procedures, Volume I, Evaluation of Visible Emissions |
| 6-310 | Particulate Weight Limitation | Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources |
| 6-311 | 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 |
| 6-601 | Particulate Matter Sampling | Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources |
| 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 |
| 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 |
| SIP 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 |
| 8-5-304 | 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 |
| 8-5-311.3 | VOC emissions | Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units |
| 8-5-328.2 | VOC emissions for tank cleaning | Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|------------------------|---|--|
| 8-5-320.3 | Pressure vacuum leak concentration | EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks |
| 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 |
| 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 |
| 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 |
| 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) |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|--|---|
| BAAQMD Regulation 8-18 | Equipment Leaks (1/7/98) | |
| 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 | Determination of mass emissions | EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 |
| 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 |
| 8-44-301 | POC emission rate limitation during vessel loading | Manual of Procedures, Volume IV, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units |
| 8-44-304.1 | Tank vessel is leak free and gas tight | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| 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 |
| 9-1-301 9-2-301 | Ground Level Monitoring | Manual of Procedures, Volume VI, Section I, Area Monitoring |
| 9-1-302 | Sampling and Analysis, SO ₂ | Manual of Procedures, Volume IV, ST-19 A or B, Total Sulfur Oxides, Integrated Sampling |
| 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 |
| 9-1-313.1 | 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 |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|--|
| 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 |
| 9-9-301.1 | Emission Limits- Turbines Rated < 10 MW | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| 9-9-301.2 | 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 |
| 9-9-301.3 | 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 |
| 9-9-503.2 | 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 |
| 9-10-302 | 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 |
| 9-10-303 | 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 |
| NSPS 40 CFR 60 Subpart Dc | Standards of performance for small industrial-commercial-institutional steam generating units (10/17/00) | |
| 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© | Oil-fired: 20% opacity and 27% opacity for 6 min/hr | |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--------------------------------------|--|---|
| NSPS 40 CFR 60 Subpart J | Standards of performance for Petroleum Refineries (10/17/00) | |
| 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 |
| 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 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 | | |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 40 CFR 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 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 |
| 40 CFR 60 Subpart GG 60.333 (b) | Fuel Sulfur Limit (gaseous fuel) | ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry |
| 40 CFR 60 Subpart GG 60.333 (b) | Fuel Sulfur Limit (liquid fuel) | ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils |
| NSPS 40 CFR 60 Subpart VV | Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (10/18/83) | 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) |
| 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©: 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 QQQ | Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (11/23/88) | |
| 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 |

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Table VIII – Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|---|
| NSPS 40 CFR 60 Appendix A | Appendix A to Part 60 – Test Methods | EPA Reference Method 21 |
| 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 (10/17/2000) | |
| 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) (6/6/84) | 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©: 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 |
|---|---|--|
| 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 |
| NESHAPS 40 CFR 63, Subpart Y | National Emission Standards for Marine Tank Vessel Loading Operations (9/19/95) | |
| 40 CFR 63, Subpart Y 562©(2)(iii) | Vapor tightness of marine tank vessel | 40 CFR 63, 565©(1) Pressure Test for Marine Tank Vessel; and EPA Method 21 for Leak Test |
| 40 CFR 63, Subpart Y 562©(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©(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 VV | National Emission Standards for Oil-Water Separators and Organic Water Separators (7/1/96) | |
| 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. |

IX.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
 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 (1/27/82) |
| 60.334(a) | Requires CEM Water to fuel monitoring, but does not require Steam to fuel monitoring. The refinery injects steam only. |

**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) (6/6/84) |
| 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. |
| 60.484 | Subsumed by BAAQMD Regulation 8-18-308 that requires public noticing. |
| NESHAPS Part 61 Subpart V | National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84) |
| 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. |

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**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
 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 Part 63 Subpart R | National Emission Standards for Loading Racks |
| 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
 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

| Citation | Title or Description (Reason not applicable) |
|-------------------------------|--|
| BAAQMD Regulation 11-7 | Hazardous Pollutants: Benzene (3/6/85) |
| 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
 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 |
|-------------------------|--|-----------------------------|-----------------------|
| SIP Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS SUBSUMED REQUIREMENTS FOR FLOATING-ROOF TANKS | | |
| 501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | | |
| NSPS Subpart K | Petroleum Liquids Storage Vessels SUBSUMED REQUIREMENTS FOR EFRTs | | |
| 60.113(a) | Reporting and Recordkeeping for EFRTs. Subsumed into the Refinery MACT requirements. | | |

**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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| SIP BAAQMD Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS SUBSUMED REQUIREMENTS FOR FLOATING-ROOF TANKS | | |
| 501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels SUBSUMED REQUIREMENTS FOR EFRTs | | |
| 60.115b(b) | Reporting and Recordkeeping for EFRTs. Subsumed into the Refinery MACT requirements. | | |

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**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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| 60.116b (a)-(c) | Additional Recordkeeping. Subsumed into the Refinery MACT requirements. | | |

**Table IX-B-3 Tanks
 Source-Specific Subsumed Requirements**

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|------------------------------------|------------------------------|
| SIP Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS SUBSUMED REQUIREMENTS FOR FLOATING-ROOF TANKS | | |
| 501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels SUBSUMED REQUIREMENTS FOR IFRTs | | |
| 60.115b(a) | Reporting and Recordkeeping for IFRTs. Subsumed into the Refinery MACT requirements. | | |
| 60.116b (a)-(c) | Additional Recordkeeping. Subsumed into the Refinery MACT requirements. | | |

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**Table IX-B-4 Tanks
 Source-Specific Subsumed Requirements**

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

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| SIP Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS SUBSUMED REQUIREMENTS FOR FLOATING-ROOF TANKS | | |
| 501 | Records: Subsumed into the reporting and recordkeeping requirements of Refinery MACT [Section 63.654]. | | |

**Table IX B-5 Tanks
 Source-Specific Subsumed Requirements**

Internal Floating Roof Tanks Cluster 27

S-1289, S-1645

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| SIP Regulation 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS SUBSUMED REQUIREMENTS FOR FLOATING-ROOF TANKS | | |
| 501 | Records: Subsumed into the reporting and recordkeeping requirements of Refinery MACT [Section 63.654]. | | |

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**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 Steam Generating Units | | |
| 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 | |
| 60.49b | Reporting and Recordkeeping Requirements | Y | |

X.VII. 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

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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.

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

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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- Liquefied Petroleum Gas

LSFO- Low Sulfur Fuel Oil

Major Facility — A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (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

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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.**

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

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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

TVP-True Vapor Pressure

VGO- Vacuum Gas Oil

VOC — Volatile Organic Compounds

VR — Vapor Recovery

WMU – Wastewater Management Unit

WWT —Wastewater Treatment

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Units of Measure:

| | | |
|----------------|---|--|
| bb1 | = | 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 |
| 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 |

XI. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>