

Bay Area Air Quality Management District

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

~~Final~~ Proposed ~~Draft~~

MAJOR FACILITY REVIEW PERMIT

Issued To:

Tesoro Refining and Marketing Company
Facility #B2758 & Facility #B2759

Facility Addresses:

Facility #B2758	Facility #B2759
Avon <u>Golden Eagle Refinery</u>	Amorco Terminal
150 Solano Way	1750 Marina Vista Way
Martinez, CA 94553	Martinez, CA 94553

Mailing Address:

~~Avon~~ Golden Eagle Refinery, 150 Solano Way
Martinez, CA 94533

Responsible Official

William Bodnar ~~Alan A. Savage III~~
Vice President and General Refinery Manager

(925) 228-1220

Facility Contact

Matthew Marusich ~~Claire L. Spencer~~
Environmental Manager

(925) 228-1220

Type of Facility: Petroleum Refining
Primary SIC: 2911
Product: Refined Petroleum Products

BAAQMD Engineering Division Contact:
Arthur Valla

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

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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 7/19/065/2/01);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA ~~through on 6/28/998/27/99~~);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 11/19/087/19/068/1/01);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA ~~through on 1/26/992/25/99~~);

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

(as amended by the District Board on 6/15/055/17/00);

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

(as approved by EPA ~~through on 1/26/992/25/99~~);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/21/045/17/00);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA ~~through on 1/26/992/25/99~~);

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

(as adopted by the District Board on 6/15/05); ~~and~~

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

(as amended by the District Board on 4/16/035/2/01); and.

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

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

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

1. This Major Facility Review Permit was issued on ~~December 1, 2003~~[Date of Issue], and expires on ~~November 30, 2008~~[Expiration Date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than ~~May 31, 2008~~ [6 months prior to Expiration Date] and no earlier than ~~November 30, 2007~~ [12 months prior to Expiration Date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after ~~November 30, 2008~~[Expiration Date].** If the permit renewal has not been issued by [Expiration Date + 1 day], but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407 & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds

for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (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)
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, which 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. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

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)

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~~[date of issuance], to ~~May 31, 2004~~[June 30th or December 31st]. The report shall be submitted by [July 31st or January 31st]. ~~The second reporting period for this permit shall be June 1, 2004, to June 30, 2004.~~ Subsequent reports shall be for the following reporting periods: January 1st through June 30th and July 1st through December 31st, and 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 eCertification 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)
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 any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, 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. In Table II-A~~1~~ or Table II-A~~2~~C, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table II-A~~1~~ -or Table II-C~~A2~~ A2 is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

~~3.2.~~ In Table II-A-~~A1~~ or Table II-C~~A2~~, for each source ~~with a capacity identified as a grandfathered limit~~source, the throughput limits, all capacities as shown in Table II-A~~A1~~ A1 and Table II-C~~A2~~ A2 are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, The facility must report any exceedance of these a grandfathered limits is not subject to following the procedures in Section I.F reporting requirements. 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 a grandfathered 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. (Regulation 2-1-234.3)The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The reports-applications shall be sent to the following address: (Regulation 2-1-234.3).

Air Quality Engineering Manager
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Permit Evaluation Section, Title V Reports

3. ~~Reserved.~~The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled start-up 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 after the unscheduled startup/shutdown or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [basis: Regulation 2-1-403]

4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.

K. Accidental Release

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

II. EQUIPMENT

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
26	Tank A-26, <u>White Gasoline</u>	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
33	Tank A-33, <u>White Gasoline</u>	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
97	FCCU Catalyst Fines Hopper <u>Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)</u>			14,600 ton/yr	Grandfathered Limit
98	FCCU East Catalyst Hopper <u>Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)</u>			5,475 ton/yr	Grandfathered Limit
99	FCCU West Catalyst Hopper <u>Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)</u>			9,125 ton/yr	Grandfathered Limit
100	Avon Wharf Loading Berth No. 1 Marine Bulk Plant with A14 Vapor Recovery System , Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			30,000K bbl/yr	Grandfathered Limit
101	Truck Rack, <u>Tract 2 Slops Truck Rack</u> ; Unloading only: Crude Oil, Naphtha, Transmix, Fuel Oil			7,300K bbl/yr	Grandfathered Limit
103	Vehicle Service Station <u>Out of Service. Replaced with S-1525 in 2008.</u>			540,000 gal/yr	Firm Limit Condition #8003, part 5
106	Out of Service. Avon Wharf Loading Berth No. 3 Marine Bulk Plant ; Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			15,000K bbl/yr	Grandfathered Limit

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
107	Out of Service. Avon Wharf Loading Berth No. 4 Marine Bulk Plant; Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			15,000K bbl/yr	Grandfathered Limit
108	Avon Wharf Loading Berth No. 5 Marine Bulk Plant; Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			15,000K bbl/yr	Grandfathered Limit
114	Out of Service. Avon Wharf Loading Berth No. 6 Marine Bulk Plant; Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			15,000K bbl/yr	Grandfathered Limit
115	Bulk Plant (truck/rail); Caustic waste; Railcar loading rack north of water reservoir			TBD 3,754K bbl/yr	Grandfathered Limit
125	Out of Service. Tank Car Loading Rack Loading: Kerosene, Diesel, Fuel Oil			18,800K bbl/yr	Grandfathered Limit
134	Tank A-134, Light Green, Recovered Oil A14 Vapor Recovery	Fixed roof tank		651K gal 700-K_bbl/yr	Firm Limit Condition #20923, part 1 New Source Review
135	Tank A-135, Fuel Oil, Jet 'A', Gas Oil, Recovered Oil	External floating roof		651K gal 25,029K bbl/yr	Grandfathered Limit

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
137	Tank A-137, <u>Light Green</u> Fuel Oil #2, Waste Oil, Gasoline <u>A14 Vapor Recovery</u>	Fixed roof tank		659K gal 1,915K bbl/yr	Firm Limit Condition #10984, part 2 <u>New Source</u> <u>Review</u>
217	Tank A-217, <u>White</u> Ethers, Gasoline	External floating roof		4,494K gal 10,375K bbl/yr	Grandfathered Limit
278	Demolished Tank A 278, <u>Green</u> Naphtha, Alkylate, Gasoline	Internal floating roof		2,960K gal 12,775K bbl/yr	Grandfathered Limit
279	<u>Out of Service. Tank A 279</u> Gasoline	Internal floating roof		3,360K gal 12,000K bbl/yr	Grandfathered Limit
280	<u>Out of Service. Tank A 280</u> Gasoline	Internal floating roof		3,360K gal 12,000K bbl/yr	Grandfathered Limit
311	<u>Out of Service. Tank A 311</u> Gasoline, Naphtha	Internal floating roof		3,318K gal 14,600K bbl/yr	Grandfathered Limit
313	Demolished Tank A 313, <u>White</u> Gasoline	Internal floating roof		3,318K gal 7,300K bbl/yr	Grandfathered Limit
315	Tank A-315, <u>White</u> Gasoline	Internal floating roof		3,318K gal 7,700K bbl/yr	Grandfathered Limit
316	Demolished Tank A 316, <u>White</u> Gasoline	Internal floating roof		3,337K gal 7,700K bbl/yr	Grandfathered Limit
317	<u>Out of Service. Tank A 317</u> Distillate Oil, Gas Oil, Gasoline	Fixed roof		3,066K gal 16,500K bbl/yr	Grandfathered Limit
318	Tank A-318, <u>White</u> Crude Oil, Naphtha <u>A14 Vapor Recovery</u>	Fixed roof		6,846K gal 9,125K bbl/yr	Grandfathered Limit
323	Tank A-323, <u>White</u> Fuel Oil, Jet 'A', Gasoline, Alkylate Gasoline Blending Components <u>A14 Vapor Recovery</u>	Fixed roof		924K gal 2,000K bbl/yr	Firm Limit Condition #13605, part 1 <u>New Source</u> <u>Review</u>
324	<u>Out of Service. Tank A 324</u> Distillate Oil, Gas Oil, Gasoline	Fixed roof		3,318K gal 12,800K bbl/yr	Grandfathered Limit
325	<u>Out of Service. Tank A 325</u> Caustic Waste, Gasoline	Fixed roof		1407K gal 5000K bbl/yr	Grandfathered Limit

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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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
327	Tank A-327 Caustic Waste <u>A14 Vapor Recovery</u>	Fixed roof		634K gal 5000K bbl/yr	Grandfathered Limit
367	Tank A-367 Distillate Oil, Gasoline <u>A14 Vapor Recovery</u>	Fixed roof		3,360K gal 10,200K bbl/yr	Grandfathered Limit
403	Demolished Tank A-403, Black Crude Oil, Bunker C Fuel Oil, Distillate Oil, Gas Oil	Fixed roof		567K gal 5000K bbl/yr	Grandfathered Limit
431	Out of Service. Tank A-431 Naphtha, Distillate Oil, Gasoline	Fixed roof		3,318K gal 18,771K bbl/yr	Grandfathered Limit
432	Tank A-432 Ethyl Alcohol, Distillate Oil, Gasoline, Methyl Tertiary Butyl Ether, Naphtha <u>A14 Vapor Recovery</u>	Fixed roof		2,688K gal 7,382K bbl/yr	Grandfathered Limit
452	Out of Service. Tank A-452 Ammonia	Fixed roof		45K gal 5000K gal/yr	Grandfathered Limit
457	Out of Service. Tank A-457 Alkylate, Gasoline, Methyl Tertiary Butyl Ether	Fixed roof		630K gal 5000K bbl/yr	Grandfathered Limit
490	Out of Service. Tank A-490 Recovered Oil, Gas Oil	External floating roof		420K gal 1100K bbl/yr	Grandfathered Limit
499	Out of Service. Tank A-499 Crude Oil	Fixed roof		4.2K gal 5K bbl/yr	Grandfathered Limit
513	Tank A-513, White Distillate Oil, Gas Oil <u>Wastewater Sludge</u> <u>A14 Vapor Recovery</u>	Fixed roof		924K gal 5000K bbl/yr	Grandfathered Limit
529	Tank A-529 Refinery Sour Waste Water <u>Out of Service</u>	Fixed roof		118K gal 160000K bbl/yr	Grandfathered Limit
530	Tank A-530 Refinery Sour Waste Water <u>Out of Service</u>	Fixed roof		118K gal 160000K bbl/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
532	Oil Water Separator; (Tank 532 modified as OWS) #50 Crude Unit Desalter Skim Tank A14 Vapor Recovery	Custom		630K gal 2,505,360 bbl/yr	Firm Limit Condition #20099, part 1 New Source Review
587	Tank A-587 Refinery Sour Waste Water	Internal floating roof		1,151K gal 9500K bbl/yr	Grandfathered Limit
588	Tank A-588 Refinery Sour Waste Water	Internal floating roof		1,151K gal 9500K bbl/yr	Grandfathered Limit
590	DEA Flash Drum			29,096K bbl/yr	Grandfathered Limit
601	Tank A-601, Black Recovered Oil, Gas Oil	Internal floating roof		714K gal 3,650K bbl/yr	Grandfathered Limit
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank A14 Vapor Recovery	Fixed roof		126K gal 25,029K bbl/yr	Grandfathered Limit
606	50 Unit Wastewater Air Stripper A [Brine Stripper] Abated by S950 (F50)			700 SCFM 367,920,000 SCF/yr	Firm Limit Condition #7410, part 2 New Source Review
607	50 Unit Wastewater Air Stripper B [Brine Stripper] Abated by S950 (F50)			700 SCFM 367,920,000 SCF/yr	Firm Limit Condition #7410, part 2 New Source Review
612	Tank A-612, White Ethyl Alcohol, Gasoline	Internal floating roof		420K gal 243K bbl/yr	Firm Limit Condition #6740, part 1 New Source Review

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
613	Tank A-613, <u>White</u> Organic Liquid – other/not Spec <u>A14 Vapor Recovery</u>	Fixed roof with <u>internal</u> <u>diaphragm seal</u>		420K gal 5000K bbl/yr	Grandfathered Limit
622	Tank A-622, <u>Light grey</u> <u>Mixture of Diesel and Kerosene</u>	Fixed roof		3360K gal 14600K bbl/yr	Grandfathered Limit
629	Tank A-629, <u>12% Ammonia in</u> <u>Water</u>	Fixed Roof		21K gal 330K bbl/yr	Grandfathered Limit
631	Tank A-631, <u>Light Green</u> Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	External floating roof		5,502K gal 11,000K bbl/yr	Grandfathered Limit
637	Tank A-637, <u>White</u> Naphtha	External floating roof		3,360K gal 7,300K bbl/yr	Grandfathered Limit
638	Tank A-638, <u>White</u> Naphtha, Gas Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
639	Tank A-639, <u>White</u> Naphtha	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
640	Tank A-640, <u>White</u> Distillate Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
641	Tank A-641, <u>White</u> Distillate Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
642	Tank A-642, <u>White</u> Hydrocarbon, Gas Oil	External floating roof		1,806K gal 25,029K bbl/yr	Grandfathered Limit
650	Tank A-650 Refinery Sour Waste Water	External floating roof		5,502K gal 17,520K bbl/yr	Grandfathered Limit
651	Tank A-651 Oil/Water Mixture	External floating roof		5,502K gal 17,520K bbl/yr	Grandfathered Limit
655	Out of Service. Tank A-655 Refinery Sour Waste Water	Fixed roof		228K gal 6000 bbl/yr	Grandfathered Limit
656	Tank A-846, <u>Foul Water Stripper</u> <u>Charge Tank,</u> Refinery Sour Waste Water <u>A-12 Vapor Recovery</u> <u>A-14 Vapor Recovery</u>	Fixed roof		126K gal 28,470K bbl/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
657	Out of Service. Tank A-657 Refinery Sour Waste Water	Fixed roof		48K gal 1K bbl/yr	Grandfathered Limit
658	Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water A-12 Vapor Recovery A-14 Vapor Recovery	Fixed roof		126K gal 28,470K bbl/yr	Grandfathered Limit
659	Tank A-659 [Coke Storage] Abated by A-9 ESP	United Conveyor Co.		1,016,160 ton/yr (limit applies to S659 and S660 combined in fluid coke service) 1,277,500 wet tons/ consecutive 12 months combined limit for S-659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit Condition #20682, part 2 Firm Limit derived from Condition #23129, parts 29 & 44 <u>New Source Review</u>
660	Tank A-660 [Coke Storage] Abated by A-9 ESP	United Conveyor Co.		1,016,160 ton/yr (limit applies to S659 and S660 combined in fluid coke service) 1,277,500 wet tons/ consecutive 12 months combined limit for S-659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit Condition #20682, part 2 Firm Limit derived from Condition #23129, parts 29 & 44 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
663	Out of Service. Tank A-663 Alcohol, Amine, Caustic Waste	Fixed roof		21K gal 500K bbl/yr	Grandfathered Limit
664	Tank A-664, <u>White</u> Gasoline	External floating roof		5,460K gal 12,800K bbl/yr	Grandfathered Limit
690	Tank A-690, <u>White</u> Crude Oil	External floating roof		13,020K gal 25,550K bbl/yr	Grandfathered Limit
692	Tank A-692, <u>White</u> Gasoline	External floating roof		3,276K gal 10,000K bbl/yr	Grandfathered Limit
694	Tank A-694, <u>White</u> Crude Oil	External floating roof		13,230K gal 21,900K bbl/yr	Grandfathered Limit
696	Tank A-696, <u>White</u> Gasoline	Internal floating roof		630K gal 2,000K bbl/yr	Grandfathered Limit
697	Out of Service. Tank A-697 Gasoline	Internal floating roof		630K gal 2,000K bbl/yr	Grandfathered Limit
698	Out of Service. Tank A-698 Ethyl Alcohol, Fuel Oil, Jet 'A', Gasoline	Internal floating roof		630K gal 2,000K bbl/yr	Grandfathered Limit
699	Tank A-699, <u>White</u> Hydrocarbon API Separator <u>Recovered Oil</u> <u>A-14 Vapor Recovery</u>	Fixed roof		777K gal 500K <u>3838K</u> bbl/yr	Grandfathered Limit
700	Tank <u>2-A-700</u> , <u>Light grey</u> Crude Oil, Waste Water API <u>Separator Sludge</u>	Fixed roof		84K gal 2,500K bbl/yr	Grandfathered Limit
701	Tank A-701, <u>White</u> Crude Oil	External floating roof		13,020K gal 21,900K bbl/yr	Grandfathered Limit
702	Tank A-702, <u>White</u> Gasoline	External floating roof		5,502K gal 12,800K bbl/yr	Grandfathered Limit
705	Tank A-705, <u>Light Green</u> Crude Oil	External floating roof		9,366K gal 21,900K bbl/yr	Grandfathered Limit
706	Tank <u>113-A-706</u> , <u>Blue</u> Crude Oil	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit
707	Tank <u>113-A-707</u> , <u>Medium grey</u> Crude Oil, Hydrocarbon	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit
708	Tank <u>113-A-708</u> , <u>Blue</u> Crude Oil	External floating roof		13,146K gal 21,900K bbl/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
709	Tank <u>113-A-709, Green</u> Crude Oil, Waste Oil	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit
710	Tank A-710, <u>Green</u> Alkylate, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
711	Tank <u>80-A-711, Green</u> Crude Oil, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
714	Tank A-714, <u>White</u> Organic Liquid – other/not Spec, Hydrocarbon <u>Abated by A-714 Scrubber</u> <u>A-14 Vapor Recovery</u>	Fixed roof		231K gal <u>5006,257K</u> bbl/yr	<u>Firm Limit Condition 8538, part 5 New Source Review</u> Grandfathered Limit
739	<u>Out of Service. Avon Wharf Slop Tank</u> <u>Crude Oil</u>	Horizontal vessel		1.5K gal 1,689K bbl/yr	Grandfathered Limit
741	<u>Out of Service. Pour Depressant Tank</u> Organic Liquid – other/not Spec	Fixed roof		21K gal 5000 gal/yr	Grandfathered Limit
743	<u>Fuel Tank for Speeder, White Gasoline</u> <u>Demolished</u>	Horizontal vessel		252 gal 100 bbl/yr	Grandfathered Limit
746	<u>Fire Training Fuel Tank, White Gasoline</u> <u>Demolished</u>	Fixed roof		420 gal 500 gal/yr	Grandfathered Limit
771	Tank <u>2-A-713, White</u> <u>DEA (Alcohol, Amine)</u>	External floating roof		84K gal 17,520K bbl/yr	Grandfathered Limit
775	Tank A-849 Gasoline	Internal floating roof		4,605K gal 11,336,000 bbl/yr	Firm Limit Condition #19762, part A1 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
795	#3 Reformer V-307, Tank A-307 <u>Tan</u> 1,1,1 Trichloroethane, Perchloroethylene <u>Abated by A-796 Vapor Balance</u> <u>during loading</u>	Horizontal vessel, <u>nitrogen blanketed</u> <u>pressure vessel</u>		1.7K gal 11,000 gal/yr	Firm Limit Condition #5711, part 1 <u>New Source</u> <u>Review</u>
802	FCCU Fluid Catalytic Cracker <u>Regenerator</u> <u>Abated by S-901 CO Boiler and</u> <u>A-30 ESP</u>	Reactor UOP Riser Cracker Regenerator (Bechtel)		75K bbl/day 27,375K bbl/yr	Grandfathered Limit
804	FCCU Blowdown Tower Placed in Exempt <u>Removed from Service</u> <u>12/24/2009</u>			2.73K bbl/day 273K bbl/yr	Grandfathered Limit
806	Out of Service Coker Fluid Coking	Esso License (Bechtel)		53.2K bbl/day 17,447K bbl/yr	Grandfathered Limit
807	Out of Service Now in Exempt <u>Service</u> Coker Blowdown Drum			1 bbl/day 365 bbl/yr	Grandfathered Limit
808	Out of Service Coker Sluice Tank			7.2K ton/day 400K ton/yr	Grandfathered Limit
809	Coker Slurry Settler	Dorr		16.4K bbl/day 6,000K bbl/yr	Grandfathered Limit
810	Coker Pile Loader System	Barber-Greene		7,200 ton/day 400K ton/yr	Grandfathered Limit
815	No. 1 Feed Prep Unit <u>A-12 Vapor Recovery</u>	Worthington		84K bbl/day 30,660K bbl/yr	Grandfathered Limit
816	No. 2 Feed Prep Unit <u>A-12 Vapor Recovery</u>	Elliott Co.		48K bbl/day 17,520K bbl/yr	Grandfathered Limit
817	No. 3 Crude Unit <u>A-12 Vapor Recovery</u>	Elliot Co.		63K bbl/day 22,995K bbl/yr	Firm Limit Condition #1976217837, part 1, part 2 <u>New Source</u> <u>Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
819	API Oil-Water Separator/ <u>Dissolved Nitrogen Flotation System</u> <u>Abated by A-39 Thermal Oxidizer or A-14 Vapor Recovery</u>	Bechtel		729K bbl/day 133,225K bbl/yr	Grandfathered Limit
821	Coke Storage Pile			7.2K ton/day 400K ton/yr	Grandfathered Limit
822	Area Blowdown [with Quench System w/ Controls] Removed from Placed in Exempt Service 1/25/2010			2.73K bbl/day 273K bbl/Yr	Grandfathered Limit
823	Heat Exchanger Cleaning Pit North [Tank M286]	Water Wash		10,000K kgal/yr	Grandfathered Limit
824	Heat Exchanger Cleaning Pit South [Tank M287]	Water Wash and Diesel		1,008K kgal/yr	Grandfathered Limit
825	DEA Regenerator			2130 gpm 73k bbl/day as feed 26,655k bbl/yr	Grandfathered Limit
830	Wastewater Surge Ponds			2,400K bbl/day 46,000K bbl/yr	Grandfathered Limit
831	Bio-Oxidation Pond Open pond			2,400K bbl/day 133,225K bbl/yr	Grandfathered Limit
834	No. 50 Crude Blowdown Drum w/o Controls Removed from Placed in Exempt Service 1/20/2010			2.73K bbl/day 273K bbl/Yr	Grandfathered Limit
842	Wastewater Treatment Plant Clarifiers, filters, and granular activated carbon	Jacobs Engineering Co.		2,400K bbl/day 133,225K bbl/yr	Grandfathered Limit
846	No. 3 HDS Cooling Tower	Marley Sigma	126-104	17,462K gal/day 6,374,000K gal/yr	Grandfathered Limit
848	FCCU Mercox Unit	Foster Wheeler		55K bbl/day 20,075K bbl/yr	Firm Limit Condition #80774357, Ppart B6B New Source Review

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
846	No. 3 HDS Cooling Tower	Marley Sigma	126-104	17,462K gal/day 6,374,000K gal/yr	Grandfathered Limit
850	No. 3 HDS Unit	Union Finer		70K bbl/day 25550K bbl/yr	Firm Limit Condition # 80774357, part B6BA New Source Review
851	Ammonia Recovery Unit			Ammonia Production 77 short tons/day 22,264 tons/yr	Grandfathered Limit
854	East Air Flare <u>Vent Gas, Natural Gas, Process Gas</u> Abates: See Note 1			1,900 mmbtu/hr 45,600 mmbtu/day	Grandfathered Limit
856	Spare DEA Stripper			73k bbl/day 26.655k bbl/yr 1,000 gpm rich DEA as 2,130 feed to stripper	Grandfathered Limit
858	<u>Out of Service. Cold Cleaner</u> {Machine Shop Lapping Room}			50 gal/yr	Firm Limit Condition #16729, part 1
860	<u>Out of Service. Cold Cleaner</u> {Tool Room}			50 gal/yr	Firm Limit Condition #16729, part 1
861	<u>Out of Service. Now in Exempt Service. Cold Cleaner</u> {Auto Shop}			50 gal/yr	Firm Limit Condition #16729, part 1
863	<u>Out of Service. LPG Vaporized System</u> {Standby}			4,130K bbl/yr	Grandfathered Limit

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	External Floating Roof		13,146K gal 20,000K bbl/yr	Firm Limit Condition #21393, part 1 New Source Review
896	Tank A-896, Off-white, Slop oil	External Floating Roof		XXXXX 1805K gal 2,500K bbl/yr	Firm Limit Condition 23263, part 1 New Source Review
901	No. 7 Boiler Refinery Fuel Gas, FCCU Flue Gas Abates: S802	CO Boiler		668 mmbtu/hr 5,851,680 mmbtu/yr	Grandfathered Limit
902	FCCU Startup Heater, (Startup use only) Refinery Fuel Gas, Natural Gas	Peabody Horizontal Air Heater:	M-20 burner	85 mmbtu/hr 14,280 mmbtu/yr	Grandfathered Limit
903	Out of Service. No. 5 Boiler Refinery Fuel Gas, Coker Flue Gas,			740 mmbtu/hr 6,482,400 mmbtu/yr	Grandfathered Limit
904	No. 6 Boiler Refinery Fuel Gas, Coker Flue Gas	Riley Stoker		775 mmbtu/hr 6,789,000 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #17322, part 1
905	Out of Service. No. 6 Boiler Startup Heater Refinery Fuel Gas, Natural Gas			47 mmbtu/hr 7,000 mmbtu/yr	Grandfathered Limit
908	No. 3 Crude Heater (F8) Natural Gas, Refinery Fuel Gas Abated by A-908 SCR	Alco	Cabin	220 mmbtu/hr 1,927,200 mmbtu/yr	Firm Limit Condition #16685, part 1, Condition

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
909	No. 1 Feed Prep Heater (F9) Refinery Fuel Gas, Natural Gas	Alco	Cabin	145 mmbtu/hr 1,270,200 mmbtu/yr	Firm Limit Condition #16685, part 1
912	No. 1 Feed Prep Heater (F12) Refinery Fuel Gas, Natural Gas	Born	Box	135 mmbtu/hr 1,182,600 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
913	No. 2 Feed Prep Heater (F13) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrica 1	59 mmbtu/hr 516,840 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3
915	Platformer Intermediate Heater (F15) Refinery Fuel Gas, Natural Gas	Braun	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
916	No. 1 HDS Heater (F16) Natural Gas, Refinery Fuel Gas	Braun	Cabin	55 mmbtu/hr 481,800 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
917	No. 1 HDS Prefract Reboiler (F17) Refinery Fuel Gas, <u>Natural Gas</u>	Industrial Engineers	Vertical Cylindrical	18 mmbtu/hr 157,680 mmbtu/yr	Firm Limit Condition #16685, <u>part 1</u> Condition #4357, <u>part 7G, part 7H</u>
919	No. 2 HDS Depent Reboiler (F19) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	65 mmbtu/hr 569,400 mmbtu/yr	Firm Limit Condition #16685, <u>part 1</u> Condition #18372, <u>part 3, part 25</u>
920	No. 2 HDS Charge Heater (F20) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	63 mmbtu/hr 551,880 mmbtu/yr	Firm Limit Condition #16685, <u>part 1</u> Condition #18372, <u>part 3, part 25</u>
921	No. 2 HDS Charge Heater (F21) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	63 mmbtu/hr 551,880 mmbtu/yr	Firm Limit Condition #16685, <u>part 1</u> Condition #18372, <u>part 3, part 25</u>

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
922	No. 5 Gas Debutanizer Reboiler (F22) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	130 mmbtu/hr 1,138,800 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
923	Out of Service. Coker Auxiliary Startup Burner Refinery Fuel Gas, Natural Gas			107 mmbtu/hr 17,976 mmbtu/yr	Grandfathered Limit
924	Out of Service. Coker Anti-Coking Superheater (F24) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	16 mmbtu/hr 140,160 mmbtu/hr	Grandfathered Limit
925	Out of Service. Coker Attriting Superheater (F25) Refinery Fuel Gas, Natural Gas			5.9 mmbtu/hr 51,684 mmbtu/yr	Grandfathered Limit
926	No. 2 Reformer Splitter Reboiler(F26) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	145 mmbtu/hr 1270200 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
927	No. 2 Reformer Heat/Reheating (F27) Refinery Fuel Gas, Natural Gas <u>Abated by A-1431 SCR</u>	Lummus	Multicell Cabin	280 mmbtu/hr 2,452,800 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
928	HDN Reactor A Heater (F28) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
929	HDN Reactor B Heater (F29) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
930	HDN Reactor C Heater (F30) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
931	Hydrocracker Reactor 1 Heater (F31) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
932	Hydrocracker Reactor 2 Heater (F32) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
933	Hydrocracker Reactor 3 Heater (F33) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit Condition #16685, part 1
934	Hydrocracker Stabilizer Reboiler (F34), Refinery Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	152 mmbtu/hr 1,331,520 mmbtu/yr	Firm Limit Condition #16685, part 1
935	Hydrocracker Splitter Reboiler (F35), Refinery Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	152 mmbtu/hr 1,331,520 mmbtu/yr	Condition #16685, part 1
936	Out of Service. Regeneration Gas Heater (F36) Natural Gas			3.5 mmbtu/hr 30,660 mmbtu/yr	Grandfathered Limit
937	Hydrogen Plant Heater (F37) Refinery Fuel Gas, Natural Gas	Selas	Twin Cell Reformer	743 mmbtu/hr 6,508,680 mmbtu/yr	Condition #16685, part 1
938	Out of Service. HDN Prefractionator Heater (F38) Refinery Fuel Gas, Natural Gas			125 mmbtu/hr 1,095,000 mmbtu/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
943	Tank A-691 Safety Flare Natural Gas, Process Gas , Butane <u>(Process Gas)</u> Abates: S691 See Note 2.			2,500,000 mmbtu/hr 60,000,000 mmbtu/day	Grandfathered Limit
944	North Steam Flare Natural Gas, Process -Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit
945	South Steam Flare Natural Gas, Process -Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit
950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas <u>Abated by A-1432 SCR</u> <u>Abates: S-606; S-607</u>	Alcorn	Box	440 mmbtu/hr 3,854,400 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
951	No. 2 Reformer Aux Reheater (F51) Refinery Fuel Gas, Natural Gas	Optimized Process Furnaces	Cabin	30 mmbtu/hr 131,400 mmbtu/yr	<u>Firm Limit Condition #16685, part 1</u> <u>Grandfathered Limit</u>
952	Internal Combustion Engine; 9580 cubic inch displacement, 300 Hp, No. 1 Gas Plant Vapor Compressor No. 4023 Natural Gas <u>Abated by A-952 NSCR</u>	<u>Ingersoll-Rand spark ignition 4 stroke</u> Clark , Rich Burn Engine	<u>SVG-8</u>	<u>9580 in³ displacement,</u> <u>300 HP</u> 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
953	Internal Combustion Engine; 9580 cubic inch displacement, 300 Hp, No. 1 Gas Plant Vapor Compressor NO No. 4024 Natural Gas <u>Abated by A-953 NSCR</u>	<u>Ingersoll-Rand spark ignition 4 stroke</u> Clark , Rich Burn Engine	<u>SVG-8</u>	<u>9580 in³ displacement,</u> <u>300 HP</u> 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
954	Internal Combustion Engine; 9580 cubic inch displacement, 300 Hp, No. 1 Gas Plant Vapor Compressor No. 4025 Natural Gas <u>Abated by A-954 NSCR</u>	<u>Ingersoll-Rand</u> <u>spark ignition 4</u> <u>stroke, Rich Burn</u> <u>Engine Clark, Rich</u> <u>Burn Engine</u>	<u>SVG-8</u>	<u>9580 in³ displacement,</u> <u>300 HP</u> 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
955	Internal Combustion Engine; 17200 cubic inch displacement, 880 Hp, No. 4 Gas Plant Vapor Compressor No. 4064 Natural Gas	Clark, <u>spark</u> <u>ignition 2 stroke,</u> Lean Burn Engine	HRA-8	<u>17200 in³</u> <u>displacement</u> <u>880 HP</u> 8.5 mmbtu/hr 74,460 mmbtu/yr	Grandfathered Limit
956	Internal Combustion Engine; 17200 cubic inch displacement, 800 Hp, No. 4 Gas Plant Vapor Compressor No. 4065 Natural Gas	Clark, <u>spark</u> <u>ignition 2 stroke,</u> Lean Burn Engine	HRA-8	<u>17200 in³</u> <u>displacement</u> <u>800 HP</u> 8.5 mmbtu/hr 74,460 mmbtu/yr	Grandfathered Limit
957	Internal Combustion Engine; 17200 cubic inch displacement, 880 Hp, No. 4 Gas Plant Vapor Compressor NO. 4066 Natural Gas	Clark, <u>spark</u> <u>ignition 2 stroke,</u> Lean Burn Engine	HRA-8	<u>17200 in³</u> <u>displacement</u> <u>880 HP</u> 8.5 mmbtu/hr 74,460 mmbtu/yr	Grandfathered Limit
958	Internal Combustion Engine; 17200 cubic inch displacement, 800 Hp, No. 4 Gas Plant Vapor Compressor No. 4067 Natural Gas	Clark, <u>spark</u> <u>ignition 2 stroke,</u> Lean Burn Engine	HRA-8	<u>17200 in³</u> <u>displacement</u> <u>800 HP</u> 8.5 mmbtu/hr 74,460 mmbtu/yr	Grandfathered Limit
959	Internal Combustion Engine; 17200 cubic inch displacement, 880 Hp, No. 4 Gas Plant Vapor Compressor No. 4068 Natural Gas	Clark, <u>spark</u> <u>ignition 2 stroke,</u> Lean Burn Engine	HRA-8	<u>17200 in³</u> <u>displacement</u> <u>880 HP</u> 8.5 mmbtu/hr 74,460 mmbtu/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
960	Internal Combustion Engine; 12900 cubic inch displacement, 660 Hp, No. 4 Gas Plant Vapor Compressor No. 4096 Natural Gas	Clark, spark ignition 2 stroke , Lean Burn Engine	HRA-6	12900 in³ displacement 660 HP 7.5 mmbtu/hr 65,700 mmbtu/yr	Grandfathered Limit
963	Gas Turbine 177 [Alkylation Plant] Natural Gas Abated by A-963 Steam Injection System	General Electric	Frame 3	8450 HP (6.3MW) 113 mmbtu/hr 989,880 mmbtu/yr	Grandfathered Limit
971	No. 3 Reformer UOP Furnace (F53) Refinery Fuel Gas, Natural Gas Abated by A-1433 SCR on combined stack with S-972	KTI	Box	300 mmbtu/hr 2,628,000 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
972	No. 3 Reformer Debutanizer Reboiler (F54) Refinery Fuel Gas, Natural Gas Abated by A-1433 SCR on combined stack with S-971	Foster Wheeler / KTI	Vertical Cylindrical	45 mmbtu/hr 394,200 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3, part 25
973	No. 3 HDS Recycle Gas Heater (F556) Refinery Fuel Gas, Natural Gas Abated by A-31 SCR on combined stack (P79) with S-974	Entec	Vertical Cylindrical	55 mmbtu/hr 481,800 mmbtu/yr	Grandfathered Firm Limit Conditions #8077, Part B6B #16685, part 1

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
974	No. 3 HDS Fract Feed Heater (F556) Refinery Fuel Gas, Natural Gas <u>Abated by A-31 SCR on combined stack (P79) with S-973</u>	Entec	Vertical Cylindrica 1	110 mmbtu/hr 963,600 mmbtu/yr	<u>Grandfathered Firm Limit Conditions #8077, Part B6B #16685, part 1</u>
975	No. 4 Gas Plant Cooling Tower <i>(after changes authorized pursuant to permit application #2508)</i>	Marley	13-24A	99,360K gal/day 36,266,400K gal/yr	Firm Limit Condition #19199, part D1 <u>New Source Review</u>
976	No. 5 Gas Plant Cooling Tower	Marley	11-24-F5	108,000K gal/day 39,420,000K gal/yr	Grandfathered Limit
977	No. 3 Crude Unit Cooling Tower	Fluor	270-5811	31,680K gal/day 11,563,200K gal/yr	Grandfathered Limit
978	Foul Water Stripper Cooling Tower	Fluor	JCF- 2164- 23048AL P-SP	5,904K gal/day 2,154,960K gal/yr	Grandfathered Limit
979	NO No. 2 Feed Prep Cooling Tower	Fluor	2NDA- 164-2430- AALP-SP	21,600K gal/day 7,884,000K gal/yr	Grandfathered Limit
980	Hydrocracker Cooling Tower	Fluor	3F60D- 164V- 3030BPF	17,280K gal/day 6,307,200K gal/yr	Grandfathered Limit
981	No. 1 HDS Cooling Tower	Fluor	3NDA 184 30x36 CC	20,160K gal/day 7,358,400K gal/yr	Grandfathered Limit
982	No. 2 HDS Cooling Tower <i>(after changes authorized pursuant to permit application #2508)</i>	Pritchard	4- 3042LA1 8	25,920K gal/day 9,460,800K gal/yr	Firm Limit Condition# 19199, part E1 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
983	Alky/No. 2 Reformer Cooling Tower	Fluor	4FPA 1204- 3042AAL P	50269K gal/day 18,348,170K gal/yr	Grandfathered Limit
985	Iso-Octene Cooling Tower <u>No. 1 Gas Plant Cooling Tower</u>	Fluor	2NDD- 144-2430	23,040K gal/day	Grandfathered Limit
987	No. 50 Unit Cooling Tower	Marley	3-24- AAD-F- 15000	21,600K gal/day 7,884,000K gal/yr	Grandfathered Limit
988	No. 3 Reformer Cooling Tower			14,400K gal/day 5,256,000K gal/yr	Grandfathered Limit
990	Amine/HC Separator <u>Rich DEA Tank Tank 749, Green Abated by A-1526 packed bed scrubber and A-1525 SRU Stack Incinerators</u>	<u>Fixed Roof</u>		<u>88,200 gallons</u> 5x10 ⁹ gal/yr	Grandfathered Limit
991	Out of Service, FCCU Preheat Furnace H-57 Refinery Fuel Gas, Natural Gas			43 mmbtu/hr 1,032 mmbtu/day	Grandfathered Limit
992	Emergency Flare Natural Gas, Process Vent Gas Abates: See Note 1			13,200 mmbtu/hr 316,800 mmbtu/day	Grandfathered Limit
1001	No. 50 Crude Unit			120K bbl/day 40,880K bbl/yr	Grandfathered Limit
1002	No. 1 HDS Unit			28K bbl/day 10,220K bbl/yr	Firm Limit Condition #8350, part A1 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1003	No. 2 HDS Unit			40K bbl/day 14,600K bbl/yr	Firm Limit Condition #8350, part B1 <u>New Source Review</u>
1004	No. 2 Catalytic Reformer			38.4K bbl/day 14,016K bbl/yr	Grandfathered Limit
1005	No. 1 Hydrogen Plant	Bechtel/Parsons		Hydrogen Production 93.3 mmscf/day 31,025 mmscf/yr	Grandfathered Firm Limit Condition <u>24321, Part 1</u>
1006	No. 1 HDA Unit			20K bbl/day 7300K bbl/yr	Firm Limit Condition #8350, part C1 <u>New Source Review</u>
1007	Hydrocracker Unit [Hydrocracker 2 nd Stage]			37K bbl/day 12,775K bbl/yr	Grandfathered Firm Limit Condition #8077, Part C1 <u>New Source Review</u>
1008	Hydrocracker Unit [Hydrocracker 1 st Stage]			37K bbl/day 12,775K bbl/yr	Firm Limit Condition #8077, Part C1 <u>New Source Review</u> Grandfathered Limit
1009	Alkylation Unit			Alkylate Production 22.3K bbl/day 8,134K bbl/yr	Grandfathered Limit
1012	West Air Flare Process Gas, <u>Natural Gas</u> Abates: —See Note 1			2,755 mmbtu/hr 66,120 mmbtu/day	Grandfathered Limit

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Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1013	Ammonia Plant Flare <u>Natural Gas, Process Vent Gas</u> Abates: S825 S851 , S856 , S1401, A1402 S1415 See Note 3	John Zink		2,670 mmbtu/hr 64,080 mmbtu/day	Grandfathered Limit
1020	No. 3 UOP Reformer			25.2K bbl/day 8,760K bbl/yr	Grandfathered Limit
1025	Bulk Plant; Bottom Loading Facilities, Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil <u>A-14 Vapor Recovery</u>	Oilco		18,615K bbl/yr 64,457 bbl/day	Firm Limit Condition #21849, part 9
1026	DNF <u>Effluent</u> Air Stripper <u>Abated by A-39 Thermal Oxidizer</u>			0.48 ton/day 175.2 ton/yr	Grandfathered Limit <u>New Source Review</u>
1038	Benzene Saturation Unit			15,000 bbl/day 5,475 K bbl/yr	Firm Limit Condition #23258, part 1 <u>New Source Review</u>
1040	Butadiene Plant			12,000 bbl/day 4,380K bbl/yr	Grandfathered Limit
1100	<u>Out of Service. MTBE Plant</u>			MTBE Production 3 K bbl/day 1,095K bbl/yr	Firm Limit Condition #10526, part 1
1100	<u>Not Constructed. Iso-Octene Unit (to replace MTBE Plant)</u>			Iso-Octene Production 3 K bbl/day 1,095K bbl/yr	Firm Limit Condition #19199, part F0
1101	Subsurface Aerator System [at Tract 3 West Canal]			4.56 mmscf/day 1,664.4 mmscf/yr	Grandfathered Limit
1102	Subsurface Aerator System [at Tract 3 North Pond]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1103	Subsurface Aerator System [at Clean Canal Forebay]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1104	Subsurface Aeration System [at Oily Canal]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1105	No. 4 Hydrodesulfurization -HDS Unit			40080 BPD 14,629,200 BPY	Firm Limit Condition #19199, Part G0 New Source Review
1106	No. 4 HDS Reactor Feed Heater (F72), Natural Gas	Tulsa Heater	Two Vertical Cylindrical	30 mmbtu/hr (24-hour average) 225.257 mmscf/yr	Firm Limit Condition #19199, part H0, H3 New Source Review
1401	Sulfur Recovery Unit Abated by A-1402 SCOT Tail Gas Unit and A-1525 SRU Stack Incinerators	Claus	Modified 3-Stage	Sulfur Production 200 short ton/day 73,000 short ton/yr	Grandfathered Limit
1404	Sulfur Storage Tank A-756 Abated by A-1422 Venturi Scrubber	Fixed roof		1,200 ton/day 438,000 ton/yr	Grandfathered Limit
1405	Sulfur Collection Pit Abated by SRU (S1401) or SAP (S1411)			200 short ton/day 73,000 ton/yr	Grandfathered Limit
1411	Sulfuric Acid Mfg Plant Abated by A-1403 Mist Eliminator Abated by A-1417 Dual Absorption Abated by A-1421 Mist Eliminator			Sulfuric Acid Production 480 ton/day 175,200 ton/yr	Grandfathered Limit
1412	Sulfuric Acid Mfg Plant Startup Heater (Startup Use Only) Natural Gas, Refinery Fuel Gas			7.3 mmbtu/hr 1227 mmbtu/yr	Grandfathered Limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1413	SAP: No. 1 Oleum Tank A- 753 763 Abated by A-1404 Mist Eliminator	Fixed roof		1,202.4 ton/day 438,876 ton/yr	Grandfathered Limit
1414	SAP: No. 2 Oleum Tank A- 763 753 Abated by A-1404 Mist Eliminator	Fixed roof		1,202.4 ton/day 438,876 ton/yr	Grandfathered Limit
1415	SAP: H2SO4 Loading Dock Abated by A-1404 Mist Eliminator			1,728 ton/day 7,000 ton/yr	Grandfathered Limit
1416	SAP: No. 1 Spent Acid Tank A- 745 746 Abated by A-1525 SRU Stack Incinerators	Fixed roof		6,257K bbl/yr 1,800 ton/day 100,000 ton/yr	Grandfathered Limit
1417	Out of Service. SAP: No. 2 Spent Acid Tank A- 746	Fixed roof		1,800 ton/day 100,000 ton/yr	Grandfathered Limit
1418	Rich DEA Tank A-750 Abated by A-1418 Packed Bed Scrubber and Abated by A-1525 SRU Stack Incinerators	Fixed roof		73K bbl/day 26,655K bbl/yr	Grandfathered Limit
1420	Not a source. This is the reducing gas generator in the A-1402 SCOT Tail Gas Treatment Unit. Tail Gas In-Line Burner Natural Gas	John Zink		3.650 mmbtu/hr 31,974 mmbtu/yr	Grandfathered Limit
1421	Sour Water Feed Tank A-757 {Ammonia Recovery Unit Feed Tank}	External floating roof		11.7K bbl/day 2,490 ,270K bbl/yr	Firm Limit Condition #13282, Part 1 New Source Review Grandfathered Limit
1422	Sour Water Feed Tank M-782 Ammonia Recovery Unit ARU Feed Tank	External floating roof		4,270.5K bbl/yr	Grandfathered Limit

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Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1452	Oil Water Separator {Hydrocarbon Recovery System, 39 light hydrocarbon pumps, 13 heavy hydrocarbon pump}			5,000K bbl/yr	Firm Limit Condition 9875, part 6 <u>New Source Review</u>
1455	Out of Service. Now in Exempt Service. Cold-Cleaner {Auto Shop}			25 gal/yr	Firm Limit Condition #16729, part 1
1456	Out of Service. Cold-Cleaner {I&E Shop}			50 gal/yr	Firm Limit Condition #16729, part 1
1457	Out of Service. Now in Exempt Service. Cold-Cleaner {Compressor Shop}			50 gal/yr	Firm Limit Condition #16729, part 1
1458	Out of Service. Cold-Cleaner {Valve Shop}			50 gal/yr	Firm Limit Condition #16729, part 1
1461	Tank A-866, <u>White</u> Crude Oil	External floating roof		10,080K gal 50,000,000 bbl/yr	Firm Limit Condition #17477, part A1 <u>New Source Review</u>
1463	Tank A-867, <u>Silver</u> Crude Oil, HDS Gas Oil	External floating roof		10,080K gal 50,000,000 bbl/yr	Firm Limit Condition #17477, part C1 <u>New Source Review</u>

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1464	Tank A-868, <u>Off-white Diesel, Jet A, Kerosene</u>	External floating roof		4,200K gal 10,000,000 bbl/yr	Firm Limit Condition #17477, part D1 <u>New Source Review</u>
1465	Tank A-869, <u>Off-white Jet A, Diesel, Kerosene</u>	External floating roof		4,200K gal 10,000,000 bbl/yr	Firm Limit Condition #17477, part E1 <u>New Source Review</u>
1469	<u>Emergency Standby Diesel Engine Avon Wharf Fire Water Pump Engine; Diesel Fired</u>	Cummins	NTA855C	400 HP, <u>34 hrs/yr</u>	Firm Limit Condition #18946-22851 part 1 <u>New Source Review</u>
1470	<u>No. 71 Furnace; No. 3 Crude Vacuum Distillation Heater (F71) Refinery Fuel Gas, Natural Gas Abated by A-908 SCR</u>			30 mmbtu/hr 262,800 mmbtu/yr	Firm Limit Condition #18539, part 9 <u>New Source Review</u>
1471	<u>Emergency Standby Diesel Engine Landsend Fire Water Pump Engine; Diesel Fired</u>	Cummins	N855P23 5	130 HP, <u>34 hrs/yr</u>	Firm Limit Condition #18946-22851 part 1 <u>New Source Review</u>
1472	<u>Emergency Standby Diesel Engine Tract 4 North Fire Water Pump Engine; Diesel Fired</u>	Caterpillar	3406BD1	430 HP, <u>34 hrs/yr</u>	Firm Limit Condition #18946-22851 part 1 <u>New Source Review</u>

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1473	Storage Tank Ethyl Mercaptan Odorant	Pressurized tank		1000 gal 3000 gal/ rolling 12-months	Firm Limit Condition #19197 part 2 New Source Review
1474	Out of Service. Emergency Standby Diesel Engine	Cummins	855P335	335 HP	Firm Limit Condition #18946 part 1
1475	Trailer 1 Fire Water Pump Engine; Diesel Fired; Portable Emergency Standby Diesel Engine	Caterpillar	3408 DI	503 HP, 34 hrs/yr	Firm Limit Condition #18947 parts 4,5 22851, part 15 New Source Review
1476	Trailer 4 Fire Water Pump Engine; Diesel Fired; Portable Emergency Standby Diesel Engine	Caterpillar	3408 DI	503 HP, 34 hrs/yr	18947 Firm Limit Condition # 22851, part 15 New Source Review 18947 parts 4,5
1477	Out of Service. Emergency Standby Diesel Engine	Cummins	NHC-4 B1	110 HP	Firm Limit Condition #18946 part 1
1484	Oil Water Separator; Pressure Vessel, 50 Unit Desalter Brine Volume: 1350 Gallons A-14 Vapor Recovery			1350 Gallons Desalter Brine Throughput 286 bbl/hr 2505-K bbl/yr	Firm Limit Condition #19762, part B1 New Source Review

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Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1485	Tank A-870 Gasoline Blending Components (heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformate, heavy catalytic reformed naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline, FCC Merox product)	Floating Roof Tank		130K bbl 11,000K bbl/yr	Firm Limit Condition #20520, part 1 New Source Review
1486	Out of Service. Emergency Standby Diesel Engine	Cummins	HR1PS	225 HP	Firm Limit Condition #18946 part 1
1487	Tank 38 Fire-Water Pump Engine, Diesel Fired	Caterpillar	3406 DBITA	2.79 MMBtu/hr, 420 HP, <u>34 hrs/yr</u>	Firm Limit Condition # <u>22851</u> , part 1 20672, part A1 New Source Review
1488	Canal Fire-Water Pump Engine, Diesel Fired	Caterpillar	3412T	3.5 MMBtu/hr, 538 HP, <u>34 hrs/yr</u>	Firm Limit Condition #20672, part B1- <u>22851</u> , part 1 New Source Review
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture <u>Abated by A-1001 Activated Carbon</u> <u>Abated by A-1002 Activated Carbon</u>	Portable, fixed volume	<u>Safety-Vapor</u>	500 bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 1 New Source Review

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture <u>Abated by A-1001 Activated Carbon</u> <u>Abated by A-1002 Activated Carbon</u>	Portable, fixed volume	<u>Safety- Vapor</u>	500_bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 2 <u>New Source Review</u>
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture <u>Abated by A-1001 Activated Carbon</u> <u>Abated by A-1002 Activated Carbon</u>	Portable, fixed volume	<u>Safety- Vapor</u>	500_bbl 13,000 bbl/yr	Firm Limit Condition #21535, part 1 <u>New Source Review</u>
1496	Tank A-876 Heavy reformat with pentanes, straight run heavy naphtha <u>A-14 Vapor Recovery</u>	Fixed roof tank		80,000 barrels 2,500K barrels/yr	Firm Limit Condition #21100, part 1 <u>New Source Review</u>
1499	Out of Service. No. 1 Pump Station, Spare Diesel Pump	Deutz	BF6FL91 3C	182 HP, 20 hrs/yr	Grandfathered limit Firm Limit Condition # 22820, part 1 <u>New Source Review</u>
1500	Out of Service. Chem Plant Air Compressor Diesel Engine	John Deere	JD4.239T	109 HP	Grandfathered limit
1501	Out of Service. Chem Plant Lorain Crane Diesel Engine	Detroit	50437000	200 HP	Grandfathered limit
1502	Out of Service. High Pressure Water Blaster Diesel Engine, 200 HP	Detroit	4-111082 Serial 820857	200 HP	Grandfathered limit
1503	Out of Service. High Pressure Water Blaster Diesel Engine, 152 HP	Detroit	4-111 Serial 4222917	152 HP	Grandfathered limit

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1504	Bulk Plant Unloading Rack, <u>2 pumps</u> Ethyl Alcohol <u>Ethanol</u>			<u>41,200K bbl/12 consecutive months</u>	Firm Limit Condition #21849, part 13 <u>New Source Review</u>
1506	Tank A-893 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 <u>New Source Review</u>
1507	Tank A-894 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 <u>New Source Review</u>
1508	Tank A-906 Avon Wharf Recovered Oil Tank, <u>Berth 1</u>	Fixed Roof Tank		1,250 gallons 1,689K barrels/yr <u>combined limit for S1508 and S1509</u>	Firm Limit Condition #23486, part 1 <u>New Source Review</u>
<u>1509</u>	<u>Tank A-907 Avon Wharf</u> <u>Recovered Oil Tank, Berth 5</u>	<u>Fixed Roof Tank</u>		<u>1,250 gallons</u> <u>1,689K barrels/yr</u> <u>combined limit for S1508 and S1509</u>	<u>Firm Limit Condition #23486, part 1</u> <u>New Source Review</u>
1510	Delayed Coker			<u>55,053.2K bbl/day</u> <u>20,07547,477K bbl/12 consecutive months</u>	Firm Limit Condition #23129, part 3 <u>New Source Review</u>
1511	Delayed Coker Heater #1 (F78) Natural gas, Refinery fuel gas <u>Abated by A-1511 SCR</u>	John Zink, ultra-low-NOx, or equivalent		<u>230 mmbtu/hr</u> 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1512	Delayed Coker Heater #2 (F79) Natural gas, Refinery fuel gas <u>Abated by A-1512 SCR</u>	John Zink, ultra-low-NOx, or equivalent		<u>230 mmbtu/hr</u> 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 <u>New Source Review</u>
1513	Coke Screen/Crusher			1,277,500 wet tons/ consecutive 12 months	Firm Limit Condition #23129, part 29 <u>New Source Review</u>
1514	Coke Silo#1 <u>Abated by A-1514 Baghouse</u>	Columbian Tec Tank		1,277,500 wet tons/ consecutive 12 months combined limit for S- 659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit derived from Condition #23129, parts 29 & 44 <u>New Source Review</u>
1515	Coke Silo#2 <u>Abated by A-1515 Baghouse</u>	Columbian Tec Tank		1,277,500 wet tons/ consecutive 12 months combined limit for S- 659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit derived from Condition #23129, parts 29 & 44 <u>New Source Review</u>
1516	Coker Truck Loadout			1,277,500 wet tons/ consecutive 12 months	Firm Limit Condition #23129, part 44 <u>New Source Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1517	Coker Flare Natural gas, Process Vent gas only at flare pilots <u>Abates: See Note 1</u>			1.314 MMscf/ consecutive 12 months natural gas to flare pilots 8.585 MMscf / consecutive 12 months natural gas to flare purge	Firm Limits Conditions #23129, parts 53 & 56 <u>New Source Review</u>
1518	Emergency Diesel Fire Water Pump North Reservoir West Fire Water Pump Engine, Diesel Fired P10294, EN # 4146	Cummins	CFP11E- F20	360 BHP, 50 hrs/yr hours per year	Firm Limit Condition #23811, part 1 <u>New Source Review</u>
1519	Emergency Diesel Fire Water Pump North Reservoir East Fire Water Pump Engine, Diesel Fired, P10295, EN# 4147	Cummins	CFP11E- F20	360 BHP, 50 hrs/yr hours per year	Firm Limit Condition #23811, part 1 <u>New Source Review</u>
1521	Tank A-904	External floating roof		5,502 K gal 10,000K bbl/yr	Firm Limit Condition # 23715 <u>23739</u> , part 1 <u>New Source Review</u>
<u>1524</u>	<u>50 Unit Flare</u> <u>Natural gas, Process Vent gas</u> <u>Abates: See Note 1</u>	<u>Steam assisted</u>		<u>3.9424</u> 3.14 MMscf/ <u>consecutive 12 months</u> <u>natural gas to flare</u> <u>pilots</u> <u>3.767</u> MMscf / <u>consecutive 12 months</u> <u>natural gas to flare</u> <u>purge</u>	<u>Firm Limits</u> <u>Condition</u> <u>#24323 Parts 8</u> <u>and 10</u> <u>New Source</u> <u>Review</u>

Table II A1 - Permitted Sources – Golden Eagle Refinery
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

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 Conditions J.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1525	Gasoline Dispensing Station, Non-Retail, 1 nozzle	Containment Solutions Hoover Vault Aboveground Fuelmaster UL-2244 Tank with Phase I and Phase II vapor recovery (balance) Nozzle: EMCO Wheaton A-4015	System: CARB Executive Order G-70-194 Nozzle: CARB Executive Order G-70-52AM	5,000 kgal tank 440K kgal /year	Firm Limit Condition 24172 New Source Review
1526	No. 5 Gas Plant			TBD 3.46 MMscf/hr	Grandfathered Limit
1527	Pressure Tank Diesel Additive Removed from Service.	Pressure		1200 gal 1000 gal/12 mo.	Firm Limit Condition 24183, part 1
1528	Alkylate Railcar Unloading Rack	Four unloading slots, 2 pumps.			New Source Review
1550	Backup Steam Boiler No. 1 Natural gas Abated by A1550 SCR	Rental (various)	Various	<= 99 MMBtu/hr 2160 hrs/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 3 New Source Review
1551	Backup Steam Boiler No. 2 Natural gas Abated by A1551 SCR	Rental (various)	Various	<= 99 MMBtu/hr 2160 hrs/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 3 New Source Review

NOTE 1: SOURCES THAT ARE DIRECT: ~~S802, S815, S816, S817, S806, S802, S850, S1001, S1002, S1003, S850, S1004, S1005, S1006, S1007, S1008, S1009, S1020, S1038, S1105, S1510, TANKS S656 AND S658, AND AIR PRODUCTS No. 2 HYDROGEN PLANT~~

SOURCES THAT ARE INDIRECT VIA VAPOR RECOVERY OR WET GAS SYSTEM: ~~S100, S532, S815, S816, S817, S819, S1001, S1006, S1007, S1008, S1020, S1025, S1484, S1510/S1526, TANKS S134, S137, S318, S323, S327, S367, S432, S513, S795, S603, S613, S656, S658, S699, S714, S1496, S1522, S513, S318, S367, S323, S699, S46, S317, S431, S432, S457~~

NOTE 2 – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM (A21), WHICH CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

NOTE 3 – S1013 OPERATION. S1013 IS A SAFETY FLARE DEVICE FOR PRESSURE RELIEFS AND CONTROL VALVES FROM THE AMMONIA RECOVERY UNIT (S851) AND SCOT TAILGAS UNIT (A1402) AND THE SULFUR RECOVERY UNIT (SRU) (S1401). S1013 DOES NOT RECEIVE ANY VENT GAS GENERATED DURING ROUTINE OPERATION

Table II C-A2 – Permitted Sources Amorco Terminal

Plant #B2759 – Tesoro Refining and Marketing Company – Amorce Terminal

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 Conditions J.

Plant #B2759 Amorce Terminal

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
19	Tank B-19 Crude Oil	External floating roof		3318K gal 70,080 K bbl/ <u>12 consecutive</u> <u>months yr crude oil</u> (limit applies to S19, <u>S21</u> , S30, S49, and S50 combined)	Firm Limit Condition #22455, part 9
21	Tank B-21 Crude Oil, Gasoline	External floating roof		3276K gal 70,080 K bbl/ <u>12 consecutive</u> <u>months yr crude oil</u> (limit applies to S19, <u>S21</u> , S30, S49, and S50 combined)	Firm Limit Condition #22455, part 9
30	Tank B-30 Crude Oil, Gasoline	External floating roof		3318K gal 70,080 K bbl/ <u>12 consecutive</u> <u>months yr crude oil</u> (limit applies to S19, <u>S21</u> , S30, S49, and S50 combined)	Firm Limit Condition #22455, part 9
49	Tank B-49 Crude Oil	External floating roof		5964K gal 70,080 K bbl/ <u>12 consecutive</u> <u>months yr crude oil</u> (limit applies to S19, <u>S21</u> , S30, S49, and S50 combined)	Firm Limit Condition #22455, part 9
50	Tank B-50 Crude Oil	External floating roof		5922K gal 70,080 K bbl/ <u>12 consecutive</u> <u>months yr crude oil</u> (limit applies to S19, <u>S21</u> , S30, S49, and S50 combined)	Firm Limit Condition #22455, part 9

Table II ~~C-A2~~ – Permitted Sources Amorco Terminal
Plant #B2759 – Tesoro Refining and Marketing Company – Amorco Terminal

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 Conditions J.

~~Plant #B2759 Amorco Terminal~~

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
54	Amorco Wharf Slop Tank	Horizontal vessel		840 gal 375K bbl/yr-gal	Grandfathered Limit
55	Amorco Terminal (New Wharf) Crude Oil, Diesel, Gas Oil, Naphtha, Kerosene, Fuel Oils <u>Unloading Only</u>			70,080K bbl/ <u>12 consecutive months yr crude oil</u>	Firm Limit Condition #22455, part 8
56	On-shore Diesel Fire-Water Pump	Caterpillar	3412DIT	34.2 gal/hr, 660 hp, <u>50 hrs/yr</u>	Firm Limit Condition #23811 part 1 20573 Part 1 for S56 <u>New Source Review</u>
57	Off-shore/Wharf Diesel Fire-Water Pump	Caterpillar	3412DIT	37.6 gal/hr, 700 hp, <u>50 hrs/yr</u>	Firm Limit Condition #23811 part 1 20573 Part 1 for S57 <u>New Source Review</u>

Table II B – Abatement Devices
Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
3	Catalytic Cracker Fines Baghouse <u>(Blinded and OOS)</u>	S97	BAAQMD <u>6-1-301</u> Regulation SIP 6-301	Monitor (pressure gauge)	Ringelmann No. 1 for more than 3 min/hr <u>Ringelmann No. 1- < 3 min/hr</u>

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
<u>3</u>	<u>Catalytic Cracker Fines Baghouse (Blinded and OOS)</u>	<u>S97</u>	<u>BAAQMD 6-1-305 Regulation-SIP 6-305</u>	Monitor (pressure gauge)	Visible particles on real property of another
<u>3</u>	<u>Catalytic Cracker Fines Baghouse (Blinded and OOS)</u>	<u>S97</u>	<u>BAAQMD 6-1-310 Regulation-SIP 6-310</u>	Monitor (pressure gauge)	0.15 grain per dscf
<u>3</u>	<u>Catalytic Cracker Fines Baghouse (Blinded and OOS)</u>	<u>S97</u>	<u>BAAQMD 6-1-311 SIP 6-311</u>	Monitor (pressure gauge)	Particulates <= 4.10 P ^{0.67} lbs/hr (P=process weight, lb/hr)
4	Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)	S97, S98, S99, S803	BAAQMD 6-1-301 Regulation-SIP 6-301	Monitor (pressure gauge)	Ringelmann No. 1 for more than 3 min/hr Ringelmann No. 1 < 3 min/hr
<u>4</u>	<u>Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)</u>	<u>S97, S98, S99</u>	<u>BAAQMD 6-1-305 Regulation-SIP 6-305</u>	Monitor (pressure gauge)	Visible particles on real property of another
<u>4</u>	<u>Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)</u>	<u>S97, S98, S99</u>	<u>BAAQMD 6-1-310 Regulation SIP 6-310</u>	Monitor (pressure gauge)	0.15 grain per dscf
<u>4</u>	<u>Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)</u>	<u>S97, S98, S99</u>	<u>BAAQMD 6-1-311 SIP 6-311</u>	Monitor (pressure gauge)	Particulates <= 4.10 P ^{0.67} lbs/hr (P=process weight, lb/hr)
6	Spray Box for Slurry Settler, Scrubber	S809	BAAQMD Regulation 6-1-301 SIP 6-301	none	Ringelmann No. 1 for more than 3 min/hr Ringelmann No. 1, < 3 min/hr
<u>6</u>	<u>Spray Box for Slurry Settler, Scrubber</u>	<u>S809</u>	<u>BAAQMD Regulation 6-1-305 SIP 6-305</u>	none	Visible particles on real property of another
<u>6</u>	<u>Spray Box for Slurry Settler, Scrubber</u>	<u>S809</u>	<u>BAAQMD Regulation 6-1-310 SIP 6-310</u>	none	0.15 grain per dscf
<u>6</u>	<u>Spray Box for Slurry Settler, Scrubber</u>	<u>S809</u>	<u>BAAQMD 6-1-311 SIP 6-311</u>	none	Particulates <= 4.10 P ^{0.67} lbs/hr (P=process weight, lb/hr)

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
8	Coker CO Boiler Precipitator, Single Stage Electrostatic Precipitator	S903	BAAQMD Regulation 6-301	To be established on monitor, effective June 1, 2004	Ringelmann No. 1 for ore than 3 min/hr
			BAAQMD Regulation 6-302	To be established on monitor, effective June 1, 2004	Opacity = or > 20% for more than 3 min/hr
			BAAQMD Regulation 6-304	To be established on monitor, effective June 1, 2004	Ringelmann 2 or 40% Opacity
			BAAQMD Regulation 6-305	To be established on monitor, effective June 1, 2004	Visible particles on real property of another
			BAAQMD Regulation 6-310	BAAQMD Condition #22150, part 1	0.15 grain per dscf
9	Coke Silo Precipitator	S659, S660	BAAQMD Regulation 6-1-301 SIP 6-301		<u>Ringelmann No. 1 < 3 min/hr</u> <u>Ringelmann No. 1 for no more than 3 min/hr</u>
9	Coke Silo Precipitator	S659, S660	BAAQMD Regulation 6-1-302	Daily visual inspection	Opacity = or > 20% for no more than 3 minutes
<u>9</u>	<u>Coke Silo Precipitator</u>	<u>S659, S660</u>	BAAQMD Regulation <u>6-1-305</u> SIP <u>6-305</u>	Daily visual inspection	Visible particles on real property of another
<u>9</u>	<u>Coke Silo Precipitator</u>	<u>S659, S660</u>	BAAQMD Regulation <u>6-1-310</u> SIP <u>6-310</u>	Daily visual inspection	0.15 grain per dscf
<u>9</u>	<u>Coke Silo Precipitator</u>	<u>S659, S660</u>	BAAQMD Regulation <u>6-1-311</u> SIP <u>6-311</u>	Daily visual inspection	Particulates <= 4.10 P ^{0.67} lbs/hr (P=process weight, lb/hr)

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
9	Coke Silo Precipitator	S659, S660 in Delayed Coke Service	BAAQMD Condition #23129, part 39	550 scfm exhaust air flow	0.01 grain per dscf
10	Coker Sluice Tank Spray Box, Preformed Spray Scrubber	S659, S808	BAAQMD Regulation 6-301	none	Ringelmann No. 1 for more than 3 min/hr
			BAAQMD Regulation 6-305	none	Visible particles on real property of another
			BAAQMD Regulation 6-310	none	0.15 grain per dscf
11	#6 Boiler Plant Precipitator, Two Stage Electrostatic Precipitator	S904	BAAQMD Regulation 6-301	To be established on monitor, effective June 1, 2004	Ringelmann No. 1 for more than 3 min/hr
			BAAQMD Regulation 6-302	To be established on monitor, effective June 1, 2004	Opacity = or > 20% for more than 3 min/hr
			BAAQMD Regulation 6-304	To be established on monitor, effective June 1, 2004	Ringelmann 2 or 40% Opacity
			BAAQMD Regulation 6-305	To be established on monitor, effective June 1, 2004	Visible particles on real property of another
			BAAQMD Regulation 6-310	BAAQMD Condition #22150, part 1	0.15 grain per dscf
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S52, S529, S530, S656, S657, S658, S815, S816, S817	BAAQMD Regulation 1-301	none	nuisance odors

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
<u>12</u>	<u>Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb</u>	<u>S529, S530, S656, S658</u>	<u>BAAQMD 8-5-306</u> <u>SIP 8-5-306</u>	<u>None – 8-5-502 exempts source tests for refinery fuel gas system</u>	<u>VOC: 95% control</u>
<u>12</u>	<u>Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb</u>	<u>S529, S530, S656, S658, S815, S816, S817</u>	<u>Condition 10696, Part 1</u>	<u>None</u>	<u>VOC: 95% control</u>
<u>14</u>	<u>Vapor Recovery System to Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System, Compress/Condense/Absorb</u>	<u>S46, S100, S126, S127, S134, S137, S317, S318, S323, S327, S324, S325, S367, S431, S432, S457, S513, S532, S603, S613, S699, S714, S819, S1024, S1025, S1484, S1496, S1522, S32103</u>	<u>BAAQMD Regulation 1-301</u>	<u>none</u>	<u>nuisance odors</u>
<u>14</u>	<u>Vapor Recovery System to Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb</u>	<u>S134, S137, S318, S323, S327, S367, S432, S603, S613, S714, S1496, S1522</u>	<u>BAAQMD 8-5-306</u> <u>SIP 8-5-306</u>	<u>None – 8-5-502 exempts source tests for refinery fuel gas system</u> <u>none</u>	<u>VOC: 95% control</u>
<u>14</u>	<u>Vapor Recovery System to Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb</u>	<u>S134</u>	<u>BAAQMD Condition #20923, part 3</u>	<u>none</u>	<u>VOC: 98.5% control</u>
<u>14</u>	<u>Vapor Recovery System to Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb</u>	<u>S532, S1484</u>	<u>BAAQMD 8-8-301.3</u> <u>SIP 8-8-301.3</u>	<u>none</u>	<u>VOC: 95% control</u>

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
14	Vapor Recovery System, to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb	S699, S532	BAAQMD 8-8-305.2 SIP 8-8-305.2	none	VOC: 70% control
14	Vapor Recovery System, to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3	none	VOC: 95% control
14	Vapor Recovery System to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb	S134, S137, S318, S323, S327, S367, S656, S658, S1496, S1522	40 CFR 60.112b(a)(3)(ii)	none	VOC: 95% control
14	Vapor Recovery System, to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb	S32103	BAAQMD Condition # 11609, part parts E1, E2	none	VOC: 95wt% control abatement and POC < or = 500 ppm
14	Vapor Recovery System to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb Incinerate	S323	BAAQMD Condition # 13605, part 3	None	VOC: 99.5% abatement
14	Vapor Recovery System to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Absorb Compress/Condense/Incinerate	S1496	BAAQMD Condition #21100, part 2	None	VOC: 99.5% destruction efficiency
14	Vapor Recovery System, to <u>Gas Plant No. 1 Gas Plant and 40# Refinery Fuel Gas System</u> Compress/Condense/Incinerate Compress/Condense/Absorb	S1025	BAAQMD 8-8-301 8-33-301 -and BAAQMD Condition #21849, Part 11(a)	None	POC < 0.02 0.08 lb POC per 1000 gallons of material loaded
21	Propane/Butane Tank Vapor Recovery System	S691	BAAQMD Regulation 8-5-306 SIP 8-5-306	none	PVOC 95 weight% control
22	Propane/Butane Tank Flare System	S691	BAAQMD Regulation 8-5-306	none	POC 95 weight %

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802, S901	BAAQMD Condition #11433, Part 1	To be established on monitor, effective June 1, 2004	PM/PM-10 mass emission limit for S802 and S901 combined at 151.5 tons/yr
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD Regulation 6-1-301 SIP 6-301	To be established on monitor, effective June 1, 2004	Ringelmann No. 1 for more than 3 min/hr Ringelmann No. 1 < 3 min/hr
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	BAAQMD 1-520.5 6-1-302 SIP 6-302 Condition 11433, Part 2B		Less than 20% opacity except for 3 minutes in any hour
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD Regulation 6-1-304 SIP 6-304	To be established on monitor, effective June 1, 2004	Ringelmann 2 or 40% Opacity
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD Regulation 6-1-305 SIP 6-305	To be established on monitor, effective June 1, 2004	Visible particles on real property of another
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	BAAQMD Condition 11433, Part TBD; 40 CFR 60.102(a)(2); 40 CFR 63.1564(a)(2).		Less than 30% opacity except for one 6 minute average opacity reading per hour
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	BAAQMD Condition 11433, Part TBD10; 40 CFR 60.102(a)(1); 40 CFR 63.1564(a)(1)		PM: 12 lb/ton regenerator coke burn off

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
<u>30</u>	<u>FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator</u>	<u>S901</u>	<u>BAAQMD Regulation 6-1-310 6-1-310.3 SIP 6-310 SIP 6-310.3</u>	<u>None BAAQMD Condition #22150, part 1</u>	<u>0.15 grain per dscf</u>
<u>31</u>	<u>No. 3 HDS Selective Catalytic Reduction (SCR) Unit</u>	<u>S974</u>	<u>BAAQMD Condition # 8077, part B2A</u>	<u>Ammonia injection not required during tartup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months</u>	<u>NOx: 146 lb/rolling 24 hours; limit for S974 SU or SD</u>
<u>31</u>	<u>No. 3 HDS Selective Catalytic Reduction (SCR) Unit</u>	<u>S974</u>	<u>BAAQMD Condition # 8077, part B2A</u>	<u>Ammonia injection not required during tartup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months</u>	<u>NOx: 876 lb/rolling 12 months</u>
<u>31</u>	<u>No. 3 HDS Selective Catalytic Reduction (SCR) Unit</u>	<u>S973 S974</u>	<u>BAAQMD Condition # 8077, part B2A</u>	<u>Ammonia injection not required during startup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months</u>	<u>NOx: 146 lb/rolling 24 hours; combined limit for S973 and S974 during S974 SU or SD</u>
<u>31</u>	<u>No. 3 HDS Selective Catalytic Reduction (SCR) Unit</u>	<u>S973 S974</u>	<u>BAAQMD Condition # 8077, part B2A</u>	<u>Ammonia injection not required during tartup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months</u>	<u>NOx: 876 lb/rolling 12 months; combined limit for S973 and S974 during S974 SU or SD</u>
<u>31</u>	<u>No. 3 HDS Selective Catalytic Reduction (SCR) Unit</u>	<u>S973 S974</u>	<u>BAAQMD Condition # 8077, part B2B</u>	<u>Requirement to begin ammonia injection during startup of S973 or S974</u>	<u>A31 Inlet Temperature: 530 F</u>

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973, S974	BAAQMD Condition # 4357, part 7A 8077, part B7A	none	NOx: 40 ppmv, dry, corrected to 3% oxygen, 8 hour average
32	H-57 Selective Catalytic Reduction Unit	S991	BAAQMD Condition # 4357, part 7A	none	NOx: 40 ppmv, dry, corrected to 3% oxygen, 8 hour average
34	Ammonia Plant Flare System Flare	S1013	BAAQMD Regulation 1-301	none	nuisance odors
38	Carbon Adsorption System—DNF Air Stripper Adsorption, Activated Carbon/Charcoal	S819	BAAQMD 8-8-302.3		95% control
38	Carbon Adsorption System—DNF Air Stripper Adsorption, Activated Carbon/Charcoal	S1026	BAAQMD Condition # 4587, part 5B	none	NMHC: 20 ppmv, calculated as C1 methane
38	Carbon Adsorption System—DNF Air Stripper Adsorption, Activated Carbon/Charcoal	S1026	BAAQMD Condition # 4587, part 7	none	H2S: 1 ppm
39	Thermal Oxidizer, Direct Flame Afterburner	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3		95% control
39	Thermal Oxidizer, Direct Flame Afterburner	S1026	BAAQMD 8-8-307.2 SIP 8-8-307.2		70% control
39	Thermal Oxidizer, Direct Flame Afterburner	S819 , S1026	BAAQMD Condition # 45877406, part B5A B	A39 operating temperature = or > 1350 degrees F	NMHC: 10 ppmv, calculated as methane C1 (rolling one-hour average)
39	Thermal Oxidizer, Direct Flame Afterburner	S819 , S1026	BAAQMD Condition # 45877406, part B7	A39 operating temperature = or > 1350 degrees F none	H2S: 1 ppm
40	Thermal Oxidizer, Electric, Tract 6 Pump Seals, Afterburner	S32103	BAAQMD Condition # 11609, part A1	Oxidizer operating temperature > or = 1400 degrees F	VOC: 95% control with abatement and POC < or = 500 ppm

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
42	Hydrocracker Electric Thermal Oxidizer, Afterburner Electric , <u>Hydrocracker Pump Seals</u>	S32103	BAAQMD Condition # 11609, part C1	Oxidizer operating temperature > or = 1400 degrees F	VOC: <u>95% control</u> wt% abatement and POC < or = 500 ppm
43	Tract 3 Electric Thermal Oxidizer, <u>Electric, Tract 3 Pump Seals</u>	S32103	BAAQMD Condition # 11609, part D1	Oxidizer operating temperature > or = 1400 degrees F	VOC: <u>95% control</u> wt% abatement and POC < or = 500 ppm
714	Caustic Scrubber	S714	BAAQMD Regulation 1-301	none	nuisance odors
795	Vent Gas Condenser, Air Cooled Condenser	S795	BAAQMD Regulation 8-5-306	none	95 weight %
796	Vapor Balance System, <u>No. 3 Reformer Perc Tank</u>	S795	BAAQMD Condition # 5711, part 3	none	Abatement required during all loading operations
			BAAQMD Regulation 6-310	BAAQMD Condition #22150, part 1	0.15 grain per dsef
904	No. 6 Boiler Selective Catalytic Reduction (SCR) System	S904	Regulation 9-10-301 (Facility Limit) Condition 17322, Part 2	none	Comply with NOx: 0.033 lb NOx/MMBTU (Facility Limit)
908	No. 3 Crude, F-8 Selective Catalytic Reduction (SCR) System	S908	BAAQMD Condition # 4357, Part 7A8077, Part B7A	none	NOx: 10 ppmv corrected to 3% oxygen, 3 hour average
908	No. 3 Crude, F-8 Selective Catalytic Reduction (SCR) System	S1470	BAAQMD Condition #18539, Part 15	<u>Except for 144 hrs/rolling 12 months</u> (SU)none	NOx: 10 ppmv corrected to 3% oxygen, 3 hour average
927	No. 2 Ref, F-27 Selective Catalytic Reduction System	S927	BAAQMD Regulation 9-10-301 (Facility Limit)	none	NOx: 0.033 lb NOx/MMBTU (Facility Limit)

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
950	50 Crude, F-50 Selective Catalytic Reduction System	S950	BAAQMD Regulation 9-10-301 (Facility Limit)	none	NOx: 0.033 lb NOx/MMBTU (Facility Limit)
971	No. 3 Ref, F-53 Selective Catalytic Reduction System	S971	BAAQMD Regulation 9-10-301 (Facility Limit)	none	NOx: 0.033 lb NOx/MMBTU (Facility Limit)
952	Non-Selective Catalytic Reduction (NSCR) System	S952	BAAQMD Regulation 9-8-301.2	none	NOx: 140 ppmv NOx corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	BAAQMD Regulation 9-8-301.2	none	NOx: 140 ppmv NOx corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	BAAQMD Regulation 9-8-301.2	none	NOx: 140 ppmv NOx corrected to 15% oxygen
963	Steam Injection System, Alkylation Plant Turbine	S963	BAAQMD Regulation 9-9-301.1.1 [Based on turbine output rating]	none	NOx: 42 ppmvd NOx corrected to 15% oxygen until January 1, 2010
963	Steam Injection System, Alkylation Plant Turbine	S963	BAAQMD Regulation 9-9-301.2 [Based on turbine heat input rating]	none	NOx: 42 ppmvd corrected to 15% oxygen effective January 1, 2010
1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD Regulation 8-5-301 and 8-5-306 SIP 8-5-306		VOC: 95% POC control
1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD Regulation 8-5-301 and 8-5-306 SIP 8-5-306		VOC: 95% POC control
1106	Selective Catalytic Reduction (SCR) System, F72	S1106	BAAQMD Condition #19199, Part H9	none	NOx: 10 ppmv, dry, corrected to 3% oxygen

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1402	SCOT Tail Gas Unit	S1401	BAAQMD Condition 267, Part 5; 40 CFR 60.104(a)(2)(i); 40 CFR 63.1568(a)(1)		SO ₂ : 250 ppmvd @ 0% excess air
1402	SCOT Tail Gas Unit	S1401	BAAQMD Condition 267, Part 2		SO ₂ : 4 lb/ton sulfur processed
1402	Scot Tail Gas Unit/Incinerator	S1416, S1417, S1420	BAAQMD Regulation 6-301	none	Ringelmann No. 1 for more than 3 min/hr
1402	SCOT Tail Gas Unit	S1401	BAAQMD 6-1-330 SIP 6-330		SO ₃ and/or H ₂ SO ₄ expressed as 100% H ₂ SO ₄ : 183 mg/dscm or 0.08 gr/dscf of exhaust gas
1403	Brink Mist Eliminator, <u>Sulfuric Acid Plant</u>	S1411	BAAQMD Regulation 6-1-301 SIP 6-301	none	Ringelmann No. 1 for more than ≤ 3 min/hr
1404	Brink Mist Eliminator, <u>Sulfuric Acid Plant Tanks and Loading Rack</u>	S1413, S1414, S1415	BAAQMD Regulation 6-1-301 SIP 6-301	none	Ringelmann No. 1 for more than ≤ 3 min/hr
1417	Final Converter/Absorber, <u>Sulfuric Acid Plant</u> , Dual Absorber	S1411	BAAQMD Regulation 6-1-301 SIP 6-301	none	Ringelmann No. 1 for more than ≤ 3 min/hr
1417	Final Converter/Absorber, <u>Sulfuric Acid Plant</u> , Dual Absorber	S1411	BAAQMD 6-1-320 SIP 6-320	none	SO ₃ and/or H ₂ SO ₄ expressed as 100% H ₂ SO ₄ : 92 mg/dscm or 0.04 gr/dscf of exhaust gas
1418	Packed Scrubber, Packed Bed Scrubber (<u>Lean DEA</u>), <u>Rich DEA Tank A-750</u>	S1418	TBD BAAQMD Regulation 6-1-301 BAAQMD 1-301	TBD none none	TBD Ringelmann No. 1 for more than 3 min/hr Nuisance odors

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1421	Final Mist Eliminator, H₂SO₄ Manufacture, Mist Eliminator <u>Sulfuric Acid Plant</u>	S1411	BAAQMD Regulation -6-1-301 <u>SIP 6-301</u>	none	Ringelmann No. 1 for more than <u>< 3 min/hr</u>
1422	Sulfur Tank Vent Scrubber, Calvert Scrubber	S1404	BAAQMD Regulation 6-1-301 <u>SIP 6-301</u>	none	Ringelmann No. 1 for more than <u>< 3 min/hr</u>
<u>1422</u>	<u>Sulfur Tank Vent Scrubber, Calvert Scrubber</u>	<u>S1404</u>	<u>BAAQMD Condition 8535, part 1, part 3</u>	<u>9 inches H₂O pressure drop</u>	<u>PM: 0.01 gr/dscf</u>
1431	Technip Selective Catalytic Reduction (SCR) System, Technip with <u>Hitachi Catalyst or equivalent</u>	S927	BAAQMD Condition 18372, part 18; Regulation <u>BAAQMD 9-10-301 (Facility Limit)</u>	none	<u>Comply with NO_x: 0.033 lb NO_x/MMBTU (Facility Limit)</u>
1432	Technip Selective Catalytic Reduction (SCR) System, Technip with <u>Hitachi Catalyst or equivalent</u>	S950	BAAQMD Condition 18372, part 19; Regulation <u>BAAQMD 9-10-301 (Facility Limit)</u>	none	<u>Comply with NO_x: 0.033 lb NO_x/MMBTU (Facility Limit)</u>
1433	Technip Selective Catalytic Reduction (SCR) System, Technip with <u>Hitachi Catalyst or equivalent</u>	S971, <u>S972</u>	BAAQMD Condition 18372, parts <u>20 and 21</u> ; Regulation <u>BAAQMD 9-10-301 (Facility Limit)</u>	none	<u>Comply with NO_x: 0.033 lb NO_x/MMBTU (Facility Limit)</u>
1433	<u>Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent</u> #3 Reformer Feed Preheater SCR Unit Catalytic Afterburner	S971, S972	BAAQMD Condition # 4357, Part 7A <u>8077, Part B7A</u>	none	NO _x : 75 ppmvd corrected to 3% <u>O₂ oxygen</u> , 8 hour average
1106	Selective Catalytic Reduction System	S1106	BAAQMD Condition #19199, Part H9	none	NO _x : 10 ppmv, dry, corrected to 3% oxygen

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1511	Coker Heater #1 Selective Catalytic Reduction (SCR) System (SCR)	S1511	BAAQMD Condition #23129, Part 12 Part 13		NOx: 7 ppmvd, corrected to 3% O ₂ , 3 hour average; ammonia slip: 10 ppmvd, corrected to 3% O ₂
<u>1511</u>	<u>Coker Heater #1 Selective Catalytic Reduction (SCR) System</u>	<u>S1511</u>	<u>BAAQMD Condition #23129, Part 12a</u>	<u>Startup, Shutdown, Malfunction(<= 144 hours per consecutive 12 months)</u>	<u>Startup, Shutdown, Malfunction (<= 144 hours per consecutive 12 months)</u> <u>NOx: 50 ppmvd NOx (as NO₂) at-corrected to 3% O₂, 3 hour average</u>
1512	Coker Heater #2 Selective Catalytic Reduction System (SCR)	S1512	BAAQMD Condition #23129, Part 12 Part 13		NOx: 7 ppmvd, corrected to 3% O ₂ , 3 hour average; ammonia slip: 10 ppmvd, corrected to 3% O ₂
<u>1512</u>	<u>Coker Heater #2 Selective Catalytic Reduction System (SCR)</u>	<u>S1512</u>	<u>BAAQMD Condition #23129, Part 12a</u>	<u>Startup, Shutdown, Malfunction(<= 144 hours per consecutive 12 months)</u>	<u>Startup, Shutdown, Malfunction (<= 144 hours per year)</u> <u>NOx: 50 ppmvd NOx (as NO₂) at-corrected to 3% O₂, 3 hour average</u>
1514	Coker Silo #1 Baghouse, 4200 cfm	S1514	BAAQMD Regulation 6-1-301 SIP 6-301		Ringelmann No. 1 for no more than < 3 min/hr
<u>1514</u>	<u>Coker Silo #1 Baghouse, 4200 cfm</u>	<u>S1514</u>	<u>BAAQMD Regulation -6-1-305 SIP 6-305</u>		No visible particles on real property of another
<u>1514</u>	<u>Coker Silo #1 Baghouse, 4200 cfm</u>	<u>S1514</u>	<u>BAAQMD Regulation 6-1-310 SIP 6-310</u>	4200 scfm exhaust air flow	0.15 grain per dscf
<u>1514</u>	<u>Coker Silo #1 Baghouse, 4200 cfm</u>	<u>S1514</u>	<u>BAAQMD Condition #23129, part 39</u>	4200 scfm exhaust air flow	0.01 grain per dscf

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1515	Coker Silo #2 Baghouse, 4200 cfm	S1515	BAAQMD Regulation 6-1-301 SIP 6-301		Ringelmann No. 1 for no more than < 3 min/hr
<u>1515</u>	<u>Coker Silo #2 Baghouse, 4200 cfm</u>	<u>S1515</u>	<u>BAAQMD Regulation -6-1-305 SIP 6-305</u>		No visible particles on real property of another
<u>1515</u>	<u>Coker Silo #2 Baghouse, 4200 cfm</u>	<u>S1515</u>	<u>BAAQMD Regulation 6-1-310 SIP 6-310</u>	4200 scfm exhaust air flow	0.15 grain per dscf
<u>1515</u>	<u>Coker Silo #2 Baghouse, 4200 cfm</u>	<u>S1515</u>	<u>BAAQMD Condition #23129, part 39</u>	4200 scfm exhaust air flow	0.01 grain per dscf
<u>1524</u>	<u>50 Crude Unit Vapor Recovery System</u>	<u>S1001</u>	<u>BAAQMD Condition #24323, part 2</u>	<u>50 scfm</u>	<u>Operate at all times except during malfunction when valid breakdown (BAAQMD Condition 24323 Part 1)</u>
<u>1525</u>	<u>SRU Stack Incinerator</u>	<u>S990</u> <u>S1416</u> <u>S1418</u>	<u>BAAQMD 1-301</u>	<u>57.3 MM Btu/hr</u>	<u>nuisance odors</u>
<u>1525</u>	<u>SRU Stack Incinerator</u>	<u>S990</u> <u>S1416</u> <u>S1418</u>	<u>BAAQMD 6-1-301 SIP 6-301</u>	<u>57.3 MM Btu/hr</u> none	<u>Ringelmann No. 1 < 3 min/hr</u>
1525	SRU Stack Incinerator	S990 S1416 S1418	BAAQMD 8-5-306 SIP 8-5-306	57.3 MM Btu/hr None	VOC: 95% control
<u>1525</u>	<u>SRU Stack Incinerators</u>	<u>S1401,</u> <u>A1402</u>	<u>BAAQMD Condition 267, Part 5; 40 CFR 60.104(a)(2)(i); 40 CFR 63.1568(a)(1)</u>	<u>57.3 MM Btu/hr</u>	<u>SO2: 250 ppmvd @ 0% excess air</u>
<u>1526</u>	<u>Packed Bed Scrubber (Lean DEA), Rich DEA Tank A-749</u>	<u>S990</u>	<u>BAAQMD 1-301</u>	<u>none</u>	<u>nuisance odors</u>

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1550	Backup Boiler #1 SCR	S1550	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 192 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation
1551	Backup Boiler #2 SCR	S1551	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 192 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation
S943	Butane Tank S691 Safety Flare	Backup abatement for A21, which abates S691A21; S691	BAAQMD 8-5-306 SIP 8-5-306	none	VOC: 95% control
S950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas	S606, S607	BAAQMD Condition #7410, Part 1	S950 Temperature = or > 1500 degrees F	NMHC: 20 ppm (calculated as C+methane) 1 hour rolling average basis
S950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas	S606, S607	BAAQMD Condition #7410, Part 1	S950 Temperature = or > 1500 degrees F	H2S < 1 ppm (1 hour rolling average)
S1013	Ammonia Plant Flare	FBDS825, S851, S856, A1401, A1402	BAAQMD Regulation 1-301	none	nuisance odors
S1401	Sulfur Recovery Unit	S1405	BAAQMD Condition 267, Part 4	None	None
S1411	Sulfuric Acid Manufacturing Plant	S1405	BAAQMD Condition 267, Part 4	None	None

Table II C-D – Tank Sources Exempt From Permitting

Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
1	Out of Service. Tank A-01	Fixed roof		3,066K gal	2-1-123.3.3 (fuel oil)
2	Tank A-02	Fixed roof		3,158K gal	2-1-123.3.2 (gasoil)
3	Tank A-03	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
9	Out of Service. Tank A-09	Fixed roof		420K gal	2-1-123.3.2 (diesel)
10	Out of Service. Tank A-10	Fixed roof		1,050K gal	2-1-123.3.2 (diesel)
11	Out of Service. Tank A-11	Fixed roof		252K gal	2-1-123.3.2 (diesel)
14	Out of Service. Tank A-14	Fixed roof		210K gal	Out of service
15	Tank A-15 Demolished in 2009/2010	Fixed roof		84K gal	2-1-123.3.2 (diesel)
22	Out of Service. Tank A-22	Fixed roof		210K gal	2-1-123.3.2 (kerosene)
27	Out of Service. Tank A-27	Fixed roof		252K gal	Out of service
28	Tank A-28 Demolished in 2009/2010	Fixed roof		252K gal	2-1-123.3.3 (gasoil)
29	Out of Service. Tank A-29	Fixed roof		252K gal	Out of service
30	Out of Service. Tank A-30	Fixed roof		252K gal	Out of service
36	Tank A-36 Demolished in 2009/2010	Fixed roof		962K gal	2-1-123.3.3 (fuel oil/resid)
44	Tank A-44 Demolished in 2009/2010	Fixed roof		2,310K gal	2-1-123.3.3 (diesel)
45	Out of Service. Tank A-45	Fixed roof		252K gal	2-1-123.3.3 (diesel)
56	Out of Service. Tank A-56	Fixed roof		1,008K gal	2-1-123.3.2 (diesel) – out of service
57	Tank A-57	Fixed roof		576K gal	2-1-123.3.3 (diesel)
59	Out of Service. Tank A-59	Fixed roof		126K gal	2-1-123.3.3 (diesel)
70	Tank A-70 Demolished in 2009/2010	Fixed roof		966K gal	2-1-123.3.3 (resid/asphalt)
71	Out of Service. Tank A-71	Fixed roof		966K gal	2-1-123.3.3 (resid/asphalt)
126	LPG Truck Loading Rack	Bulk plant (truck/rail)	9 pumps Bottom submerged fill	3650K kbb/yr	2-1-123. (liquefied organic liquids) A14 Vapor Recovery
127	LPG Tank Car Loading Rack	Bulk plant (truck/rail)	Bottom submerged fill	500K kbb/yr	2-1-123.3.1 (liquefied organic liquids) A14 Vapor Recovery

Table II C-D – Tank Sources Exempt From Permitting

Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
131	<u>Out of Service. Tank A-131</u>	Fixed roof		21K gal	2-1-123.3.2 (diesel) – not used
198	<u>Odorant Tank</u>	Pressure tank		84 gal	2-1-123.1 (< 250 gallons) 2-1-123.3.1 (liquefied organic gases)
209	<u>Tank A-209 Demolished in 2009/2010</u>	Fixed roof		2,352K gal	2-1-123.3.3 (diesel)
212	<u>Out of Service. Tank A-212</u>	Fixed roof		21K gal	Not in use
220	<u>Out of Service. Tank A-220</u>	Fixed roof		3,318K gal	2-1-123
221	<u>Out of Service. Tank A-221</u>	Fixed roof		3,360K gal	2-1-123
222	<u>Out of Service. Tank A-222</u>	Fixed roof		3,360K gal	2-1-123
226	<u>Out of Service. Tank A-226</u>	Fixed roof		3,360K gal	2-1-123.3.3 (gasoil/SJV)
228	<u>Out of Service. Tank A-228</u>	Fixed roof		3,360K gal	2-1-123
229	<u>Tank A-229 Demolished in 2009/2010</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
230	<u>Tank A-230 Demolished in 2009/2010</u>	Fixed roof		3,360K gal	2-1-123.3.3 (fuel oil)
232	<u>Out of Service. Tank A-232</u>	Fixed roof		3,360K gal	2-1-123.3.3 (gasoil)
233	<u>Tank A-233 Demolished in 2009/2010</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
234	<u>Out of Service. Tank A-234</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
235	<u>Tank A-235 Demolished in 2009/2010</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
236	<u>Out of Service. Tank A-236</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
237	<u>Out of Service. Tank A-237</u>	Fixed roof		3,360K gal	2-1-123.3.3 (gasoil)
238	<u>Out of Service. Tank A-238</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
242	<u>Out of Service. Tank A-242</u>	Fixed roof		3,360K gal	2-1-123.3.2 (SJV)
243	<u>Out of Service. Tank A-243</u>	Fixed roof		3,170K gal	2-1-123.3.3 (gasoil)
244	<u>Out of Service. Tank A-244</u>	Fixed roof		3,360K gal	2-1-123.3.3 (fuel oil/SJV)
245	<u>Out of Service. Tank A-245</u>	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
246	<u>Out of Service. Tank A-246</u>	Fixed roof		3,170K gal	2-1-123 (diesel/foul water)
247	<u>Out of Service. Tank A-247</u>	Fixed roof		3,170K gal	2-1-123.3.2 (diesel)
258	<u>Tank A-258</u>	Fixed roof		84K gal	2-1-123.3.2 (gasoil)

Table II C-D – Tank Sources Exempt From Permitting

Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
269	Tank A-269	Fixed roof		3,167K gal	2-1-123.3.2 (diesel)
270	Tank A-270	Fixed roof		3,167K gal	2-1-123.3.2 (diesel)
271	Tank A-271	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
272	Tank A-272	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
273	Out of Service. Tank A-273	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
274	Tank A-274	Fixed roof		3,170K gal	2-1-123.3.2 (diesel)
368	Tank A-368	Fixed roof		2,176K gal	2-1-123.3.3 (resid/asphalt)
369	Tank A-369	Fixed roof		2,188K gal	2-1-123.3.3 (resid/asphalt)
374	Tank A-374 Demolished in 2009/2010	Floating roof		1,260K gal	2-1-123.3.2 (diesel)
377	Tank A-377	Fixed roof		1,092K gal	2-1-123.3.2 (diesel)
378	Tank A-378	Fixed roof		1,092K gal	2-1-123.3.2 (diesel)
405	Tank A-405 Demolished in 2009/2010	Fixed roof		630K gal	2-1-123.3 (gasoil/diesel)
406	Tank A-406	Fixed roof		378K gal	2-1-123.3 (gasoil/diesel)
429	Tank A-429	Fixed roof		3,318K gal	2-1-123.3.2 (foul water, very low hydrocarbon content)
430	Tank A-430 Demolished in 2009/2010	Fixed roof		3,150K gal	2-1-123.3.3 (resid/asphalt)
453	Out of Service. Tank A-453	Fixed roof		42K gal	Tank not used
467	Tank A-467	Fixed roof		1000K bbl 42 Kgal	2-1-123.3.2 (caustic tank)
489	Tank A-489 Demolished in 2009/2010	Fixed roof		1,050K gal	2-1-123.3.3
493	Out of Service. Tank A-493	Fixed roof		105K gal	2-1-123.3.3 (fuel oil/OOS)
494	Tank A-494	Fixed roof		105K gal	Tank not used
495	Tank A-495	Fixed roof		4200 gal	2-1-123.3.3 (turbine oil)
496	Demolished. Tank A-496	Fixed roof		4200 gal	2-1-123.3.3 (turbine oil)
503	Tank A-503	Fixed roof		3,528K gal	2-1-123.3.3 (fuel oil)
506	Out of Service. Tank A-506	Fixed roof		21K gal	2-1-123 (out of service since 1977)

Table II C-D – Tank Sources Exempt From Permitting
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
504	<u>Out of Service. Tank A-504</u>	Fixed roof		71K gal	2-1-123.3.3 (fuel oil/OOS)
510	<u>Out of Service. Tank A-510</u>	Fixed Roof		20K gal	2-1-123.3.3 (fuel oil/OOS)
514	<u>Tank A-514</u>	Sphere, LPG		508K gal	2-1-123.3.1 (liquefied organic gases - LPG)
515	<u>Tank A-515</u>	Sphere, LPG		103K gal	2-1-123.3.1 (liquefied organic gases - LPG)
516	<u>Tank A-516</u>	Sphere, LPG		80K gal	2-1-123.3.1 (liquefied organic gases - LPG)
517	<u>Tank A-517</u>	Fixed roof		3,154K gal	2-1-123.3.3 (fuel oil and gasoil)
554	<u>Tank A-554</u>	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
572	<u>Tank A-572</u>	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
574	<u>Out of Service. Tank A-574</u>	Fixed roof		1,008K gal	2-1-123.3.3
585	<u>Tank A-585</u>	Fixed roof		420K gal	2-1-123.3.3
586	<u>Out of Service. Tank A-586</u>	Fixed roof		840K gal	2-1-123.3.3 (FCC feed)
598	<u>Tank A-598</u>	Sphere, LPG		478K gal	2-1-123.3.1 (liquefied organic gases - LPG)
599	<u>Tank A-599</u>	Sphere, LPG		21K gal	2-1-123.3.1 (liquefied organic gases - LPG)
602	<u>Out of Service. Tank A-602</u>	Fixed roof		21K gal	2-1-123.3.3
604	<u>Tank A-604</u>	Fixed roof		21K gal	2-1-123.3.2
618	<u>Tank A-618</u>	Sphere, LPG		38K gal	2-1-123.3.1 (liquefied organic gases - LPG)
620	<u>Tank A-620</u>	Fixed roof		3,360K gal	2-1-123.3.2
621	<u>Tank A-621</u>	Fixed roof		3,360K gal	2-1-123.3.2
622	<u>Tank A-622</u>	Fixed roof		3360K gal	2-1-123.3.2 (diesel/kerosene)
646	<u>Tank A-646</u>	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
647	<u>Tank A-647</u>	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
648	<u>Tank A-648</u>	Horizontal pressure tank		42K gal	2-1-123.3.1 (liquefied organic gases - propane)

Table II C-D – Tank Sources Exempt From Permitting
Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
<u>649</u>	<u>Tank A-649</u>	<u>Horizontal pressure tank</u>		<u>45K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
654	Out of Service. Tank A-654	Fixed roof		42K gal	2-1-123.3.3
<u>652</u>	<u>Tank A-652</u>	<u>Sphere, LPG</u>		<u>512K gal</u>	<u>2-1-123.3.1 (liquefied organic gases)</u>
<u>662</u>	<u>Tank A-662</u>	<u>Fixed roof</u>		<u>42K gal</u>	<u>2-1-123.3.3 (gasoil)</u>
<u>666</u>	<u>Tank A-666</u>	<u>Horizontal pressure tank</u>		<u>45K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
<u>667</u>	<u>Tank A-667</u>	<u>Horizontal pressure tank</u>		<u>45K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
<u>668</u>	<u>Tank A-668</u>	<u>Horizontal pressure tank</u>		<u>45K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
<u>669</u>	<u>Tank A-669</u>	<u>Horizontal pressure tank</u>		<u>42K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
<u>670</u>	<u>Tank A-670</u>	<u>Horizontal pressure tank</u>		<u>45K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - propane)</u>
672	Demolished Tank A-672	Fixed roof		756K gal	2-1-123.3.3 (fuel oil)
<u>691</u>	<u>Tank A-691</u>	<u>Dome Roof</u>		<u>9,328.2K gal</u>	<u>2-1-123.3.1 (liquefied organic gases - butane)</u>
<u>695</u>	<u>Tank A-695</u>	<u>Sphere, LPG</u>		<u>1,071K gal</u>	<u>2-1-123.3.1 (liquefied organic gases)</u>
<u>749</u>	<u>Coker Pile Loader Diesel Tank</u>	<u>Fixed Roof</u>		<u>8400 gal</u>	<u>2-1-123.3.2 (diesel)</u>
<u>804</u>	<u>FCCU Blowdown Tower</u>	<u>Fixed Roof with Tower Vent</u>		<u>2.73K bbl/day</u>	<u>2-1-123.2 (aqueous solution < 1% organic)</u>
<u>807</u>	<u>Coker Blowdown Drum</u>	<u>Fixed Roof with Tower Vent</u>		<u>1.0 bbl/day</u>	<u>2-1-123.2 (aqueous solution < 1% organic)</u>
<u>822</u>	<u>Cracker Area Blowdown</u>	<u>Fixed Roof with Tower Vent</u>		<u>2.73K bbl/day</u>	<u>2-1-123.2 (aqueous solution < 1% organic)</u>
<u>834</u>	<u>No. 50 Crude Unit Blowdown Drum</u>	<u>Fixed Roof with Tower Vent</u>		<u>2.73K bbl/day</u>	<u>2-1-123.2 (aqueous solution < 1% organic)</u>
<u>861</u>	<u>Cold-Cleaner (Auto Shop)</u>	<u>Safety-Kleen</u>	<u>30.3R</u>	<u>30 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
<u>872</u>	<u>Tank A-872</u>	<u>External Floating Roof</u>		<u>10,192K gal</u>	<u>2-1-123.3.3 and 2-1-123.3.10 (low sulfur vacuum gas oil)</u>
<u>873</u>	<u>Tank A-89573</u>	<u>Fixed Roof</u>		<u>4,074K gal</u>	<u>2-1-123.3.3 and 2-1-123.3.10 (fuel oil)</u>

Table II C-D – Tank Sources Exempt From Permitting

Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

Plant #B2758 Tesoro Refining and Marketing Company

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
1024	Tank 80-A-717	Cone Roof		3,360K gal	2-1-123.3.2 (No. 3 HDS feed) A14 Vapor Recovery
1455	Cold Cleaner [Auto Shop]	Safety Kleen	Portable Model 60	6 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)
1457	Cold Cleaner [Compressor Shop]	Safety Kleen	SK 34	34 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)
1468	Tank A-877, <u>Spent Sulfidic Caustic</u>	Fixed roof		1,008K gal	<u>2-1-123.2 (Aqueous solutions)</u>
1498	<u>KI-75, KI-85</u>	<u>Fixed Roof</u>		<u>3000 gal</u>	<u>2-1-123.3.2 (low vapor pressure additive)</u>
1505	Tank A-777	Fixed Roof		250 gal	<u>2-1-123.3.2 (red dye for diesel)</u>
1508	Tank A-907	Fixed Roof		1,250 gal	2-1-123.3.2 and 2-1-123.3.3 (diesel and heavier)
1543	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1544	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1545	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1546	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1547	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1548	<u>Cold Cleaner [Maintenance Shops]</u>	<u>Smart Washer</u>	<u>SW23</u>	<u>15 gallons</u>	<u>Regulation 2-1-118.4 (<= 50 grams/liter VOC)</u>
1552	<u>Portable Diesel Pump (No. 1 Pump Station)</u>	<u>Caterpillar</u>	<u>Model C-7; Serial Number JTF00840</u>	<u>205 HP</u>	<u>Regulation 2-1-105.3.3 [CARB Registration 136794]</u>
None	<u>Tank A-778</u>				<u>Gasoline additive</u>

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III. GENERALLY APPLICABLE REQUIREMENTS

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

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

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The 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: <http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

~~included at the end of this permit.~~

NOTE:

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 (5/2/04 07/19/2006)	N
SIP Regulation 1	General Provisions and Definitions (8/27/9906/28/1999)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/04 11/07/19/20086)	N
SIP Regulation 2, Rule 1	General Requirements (8/27/9901/26/1999)	Y
<u>BAAQMD Regulation 2, Rule 2</u>	<u>New Source Review (06/15/2005)</u>	<u>N</u>
<u>SIP Regulation 2, Rule 2</u>	<u>New Source Review (01/26/1999)</u>	<u>Y</u>
BAAQMD Regulation 2, Rule 4	Emissions Banking (12/21/2004)	N

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
<u>SIP Regulation 2, Rule 4</u>	<u>Emissions Banking (1/26/99)</u>	<u>Y</u>
<u>BAAQMD Regulation 2, Rule 5</u>	<u>New Source Review of Toxic Air Contaminants (067/1504/05)</u>	<u>N</u>
<u>BAAQMD Regulation 2, Rule 6</u>	<u>Major Facility Review (04/16/03)</u>	<u>N</u>
<u>SIP Regulation 2, Rule 6[†]</u>	<u>Major Facility Review (06/23/95)</u>	<u>Y</u>
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/05)</u>	<u>N</u>
<u>BAAQMD Regulation 3</u>	<u>Fees (127/034/20087)</u>	<u>N</u>
<u>SIP Regulation 3</u>	<u>Fees (05/03/84)</u>	<u>Y</u>
<u>BAAQMD Regulation 4</u>	<u>Air Pollution Episode Plan (3/20/91)</u>	<u>N</u>
<u>SIP Regulation 4</u>	<u>Air Pollution Episode Plan (8/06/90)</u>	<u>Y</u>
<u>BAAQMD Regulation 5</u>	<u>Open Burning (041/29473/056/082)</u>	<u>YN</u>
<u>SIP Regulation 5</u>	<u>Open Burning (9/04/98)</u>	<u>Y</u>
<u>BAAQMD Regulation 6, Rule 1</u>	<u>Particulate Matter, General Requirements (12/05/07)</u>	<u>N</u>
<u>SIP/BAAQMD Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/9812/19/90)</u>	<u>Y</u>
<u>BAAQMD Regulation 7</u>	<u>Odorous Substances (3/17/82)</u>	<u>N</u>
<u>BAAQMD Regulation 8, Rule 1</u>	<u>Organic Compounds - General Provisions (6/15/94)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (6/15/947/20/05)</u>	<u>YN</u>
<u>SIP Regulation 8, Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (3/22/95)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 3</u>	<u>Organic Compounds - Architectural Coatings (12/20/9511/21/01)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 4</u>	<u>Organic compounds - General Solvent and Surface Coating Operations (5/15/9610/16/02)</u>	<u>NY</u>
<u>SIP Regulation 8, Rule 4</u>	<u>Organic compounds – General Solvent and Surface Coating Operations (12/23/978/26/03)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 49</u>	<u>Organic Compounds - Aerosol Paint Products (12/20/95)</u>	<u>N</u>
<u>SIP Regulation 8, Rule 49</u>	<u>Organic Compounds - Aerosol Paint Products (3/22/95)</u>	<u>Y</u>
<u>BAAQMD Regulation 8, Rule 51</u>	<u>Organic Compounds - Adhesive and Sealant Products (12/20/957/17/02)</u>	<u>N</u>
<u>SIP Regulation 8, Rule 51</u>	<u>Organic Compounds - Adhesive and Sealant Products (2/26/02)</u>	<u>Y</u>
<u>BAAQMD Regulation 11, Rule 2</u>	<u>Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/9110/07/98)</u>	<u>YN</u>

[†] Only selected citations in this regulation are SIP approved. Refer to the following website for a complete list of SIP approved citations:
<http://yosemite.epa.gov/R9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District+Agency+Wide+Provisions>

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	N
<u>California Health and Safety Code Section 41750 et seq.</u>	<u>Portable Equipment</u>	<u>N</u>
<u>California Health and Safety Code Section 44300 et seq.</u>	<u>Air Toxics "Hot Spots" Information and Assessment Act of 1987</u>	<u>N</u>
<u>California Health and Safety Code Title 17, Section 93115</u>	<u>Airborne Toxic Control Measure for Stationary Compression Ignition Engines</u>	<u>N</u>
<u>California Health and Safety Code Title 17, Section 93116</u>	<u>Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater</u>	<u>N</u>
40 CFR 61 Subpart M	<u>National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95) Standard for Asbestos NESHAP (7/20/04)</u>	Y
EPA Regulation 40 CFR 82 Subpart F	Protection of Stratospheric Ozone: Recycling and Emissions Reduction (2/21/95) 4/13/05)	Y
Subpart F, 40 CFR 82.156	Leak Repair (1/11/05)	Y
Subpart F, 40 CFR 82.161	Certification of Technicians (3/12/05)	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant (1/11/05)	Y
40 CFR 82 Subpart H	<u>Protection of Stratospheric Ozone: Halon Emissions Reduction (3/5/98)</u>	<u>Y</u>

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

Source numbers that reference (B2759) are located at the Amorco Terminal.

SECTION A SITEWIDE (REFINERY AND AMORCO)

**Table IV – A.1
 Source-specific Applicable Requirements
 FACILITY #B2758**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/200605/02/01)		
1-510	Area Monitoring	Y	
<u>1-521</u>	<u>Monitoring may be required.</u>	<u>Y</u>	
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	Y	
BAAQMD Regulation 2, Rule 1	Permits - General Requirements (07/19/2006)8/1/01)		

Table IV – A.1
Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-429	Federal Emissions Statement	N	
BAAQMD · Regulation 8 Rule 5	<u>Organic Compounds - Storage of Organic Liquids (10/18/2006)</u>		
8-5-110	<u>Exemptions</u>	<u>Y</u>	
8-5-116	<u>Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities</u>	<u>N</u>	
8-5-117	<u>Limited Exemption, Low Vapor Pressure</u>	<u>N</u>	
8-5-119	<u>Limited Exemption, Repair Period</u>	<u>N</u>	
8-5-118	<u>Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u>	<u>N</u>	
8-5-328	<u>Tank Degassing Requirements</u>	<u>N</u>	
8-5-328.1	<u>Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device</u>	<u>N</u>	
8-5-331	<u>Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used</u>	<u>N</u>	
8-5-332	<u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u>	<u>N</u>	
8-5-332.1	<u>Sludge Handling Requirements; sludge container no leaks</u>	<u>N</u>	
8-5-332.2	<u>Sludge Handling Requirements; sludge container gap requirements</u>	<u>N</u>	
8-5-404	<u>Inspection, Abatement Efficiency Determination, and Source Test Reports</u>	<u>N</u>	
8-5-411	<u>Enhanced Monitoring Program (Optional)</u>	<u>N</u>	
8-5-411.1	<u>Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program</u>	<u>N</u>	
8-5-411.2	<u>Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program</u>	<u>N</u>	
8-5-501	<u>Records</u>	<u>N</u>	
8-5-501.3	<u>Records; Retention</u>	<u>N</u>	
8-5-501.4	<u>Records; New PV setpoints</u>	<u>N</u>	
8-5-502	<u>Source Test Requirements and exemption for sources vented to fuel gas</u>	<u>N</u>	
8-5-502.2	<u>Source Test Requirements; Tank degassing and cleaning abatement devices</u>	<u>N</u>	
8-5-602	<u>Analysis of Samples, True Vapor Pressure</u>	<u>Y</u>	
8-5-603	<u>Determination of Abatement Efficiency</u>	<u>N</u>	
8-5-604	<u>Determination of Applicability Based on True Vapor Pressure</u>	<u>Y</u>	
SIP Regulation 8 Rule 5	<u>Organic Compounds - Storage of Organic Liquids (06/05/2003)</u>		
8-5-116	<u>Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities</u>	<u>Y</u>	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-117	<u>Exemption, Low Vapor Pressure</u>	<u>Y</u>	
8-5-328	<u>Tank Degassing Requirements</u>	<u>Y</u>	
8-5-328.1	<u>Tank Degassing Requirements; Tanks > 75 cubic meters</u>	<u>Y</u>	
8-5-328.1.2	<u>Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System</u>	<u>Y</u>	
8-5-328.2	<u>Tank Degassing Requirements; Ozone Excess Day Prohibition</u>	<u>Y</u>	
8-5-404	<u>Certification</u>	<u>Y</u>	
8-5-501	<u>Records</u>	<u>Y</u>	
8-5-502	<u>Tank degassing annual source test requirement</u>	<u>Y</u>	
8-5-603	<u>Determination of emissions</u>	<u>Y</u>	
8-5-603.2	<u>Source tests for tank degassing equipment</u>	<u>Y</u>	
BAAQMD Regulation 8 Rule 8	<u>Organic Compounds - Wastewater Collection and Separation Systems (09/15/2004)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	<u>N</u>	
8-8-304	<u>Sludge Dewatering Unit</u>	<u>N</u>	
8-8-504	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
8-8-602	<u>Manual of Procedures: Determination of Emissions</u>	<u>N</u>	
8-8-603	<u>Manual of Procedures: Inspection Procedures</u>	<u>N</u>	
BAAQMD SIP Regulation 8, Rule 8	<u>Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994/15/94)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	<u>Y</u>	
8-8-304	Standards: <u>Sludge-dewatering Unit</u>	<u>Y</u>	
8-8-308	Junction Box	Y	
8-8-504	Monitoring and Records: Portable Hydrocarbon Detector	Y	
8-8-602	<u>Manual of Procedures: Determination of Emissions</u>	<u>Y</u>	
8-8-603	<u>Manual of Procedures: Inspection Procedures</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 10	<u>Organic Compound – Process Vessel Depressurization (01/21/2004)</u>		
8-10-101	<u>Description</u>	<u>N</u>	
8-10-110	<u>Exemption: Storage Vessels</u>	<u>N</u>	
8-10-110.1	<u>Exemption: Storage Vessels</u>	<u>N</u>	
8-10-301	<u>Depressurization Control Options</u>	<u>N</u>	
8-10-302	<u>Opening of Process Vessels</u>	<u>N</u>	
8-10-302.1	<u>organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere</u>	<u>N</u>	
8-10-302.2	<u>Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%</u>	<u>N</u>	

Table IV – A.1
Source-specific Applicable Requirements
FACILITY #B2758

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	YN	
8-10-502	Concentration measurement using EPA Method 21	YN	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (7/20/83)10/03/1984)		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (9/16/98)10/16/2002)		
8-16-111	Exemption, Wipe Cleaning	NY	
8-16-501.32	Solvent Records – Wipe Cleaning	NY	
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)		
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	
8-40-403	Reporting, Excavation of Contaminated Soil	Y	
8-40-404	Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs	Y	
8-40-405	Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-602	Measurement of Organic Content	Y	
8-40-604	Measurement of Organic Concentration	Y	
8-40-605	Analysis of Samples Initial Boiling Point	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)	Y	
9-1-110	Conditional Exemption, Area Monitoring	Y	

Table IV – A.1
Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) Sulfur Removal Operations at Petroleum Refineries	N	
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). Sulfur Removal and Recovery System	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-6049-1-604	Ground Level Monitoring	Y	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide Emissions Limitations (06/08/1999)		
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 Removal and Recovery System	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/06/1999)	Y	
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources – incorporated by reference (02/16/2000)		
10-1	Subpart A – General Provisions (12/20/1995)	Y	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984 Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids After July 23, 1984	Y	
District BAAQMD Regulation 11, Rule 12	Hazardous Pollutants - National Emission Standards for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994, (1/6/93))	Y	

Table IV – A.1
Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 6040 CFR 60 Subpart A	NSPS - General Provisions (12/22/2008)		
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 Recordkeeping	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	
60.18	Control Device Requirements	Y	
40 CFR-60.19	General Notification and Reporting Requirements	Y	
40 CFR 60 Subpart Kb	NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)		
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Measurement of gaps between tank wall and primary seal	Y	
60.113b(b)(1)(ii)	Measurement of gaps between tank wall and secondary seal	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Primary seal gap standards	Y	
60.113b(b)(3)	Secondary seal gap standards	Y	
60.113b(b)(4)	Seal gap measurement methods	Y	
NESHAP Title 40 Part 61 40 CFR 61 Subpart A	NESHAPS, General Provisions (05/16/2007/03/16/94)		
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	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
NESHAPS Title 40 Part 61.40 CFR 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003/01/07/1993) Requirements for Treat to 6 (6BQ) [61.342(e)] facility (TAB – Total Annual Benzene)		
40 CFR 61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.340(d)	Applicability: Exemption from Subpart FF <u>for emissions routed to a fuel gas system</u>	Y	
40 CFR 61.341	Definitions	Y	
40 CFR 61.342	Standards: General	Y	
61.342(a)	<u>Standards: Definition of total annual benzene (TAB) & requirements to calculate</u>	<u>Y</u>	
40 CFR 61.342(a)(2)	Standards: TAB Calculation – Material Sold	Y	
40 CFR 61.342(a)(3)	Standards: TAB Calculation – Treat to 6 Calculation Remediation Waste	Y	
40 CFR 61.342(a)(4)	Standards: TAB Calculation – Determination Location	Y	
40 CFR 61.342(b)	Standards: General; Facility with TAB > 10Mg/year <u>compliance dates in compliance by 4/7/93</u>	Y	
40 CFR 61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, t Treat non- <u>aqueous</u> benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
40 CFR 61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment waste management units operated in accordance with that <u>manage wastes prior to and during treatment per 61.342(c)(1)(i)</u>	Y	

Table IV – A.1
Source-specific Applicable Requirements
FACILITY #B2758

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment waste management units for wastes to be recycled wastes. <u>After recycling, Recycled wastes no longer subject to 61.342(c)(1)</u>	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(e) and 61.342(d) Requirements for Treat to 6 (6BQ) facility	Y	
40 CFR 61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat <u>non-aqueous</u> waste with a (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
40 CFR 61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treatment of <u>aqueous</u> waste with a (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
40 CFR 61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; <u>Aqueous waste</u> : Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6 ton/yr), as determined in 61.355(k).	Y	
40 CFR 61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; <u>Aqueous waste</u> : Determine 61.342(e)(2) benzene quality quantity [TBO] per 61.355(k).	Y	
40 CFR 61.343(a)	Standards: Tanks	Y	
40 CFR 61.343(a)(1)	Storage Standards: Tanks Design: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
40 CFR 61.343(a)(1)(i)(A)	Storage Standards: Tanks: Fixed roof and openings: Fugitives No detectable emissions	Y	
40 CFR 61.343(a)(1)(i)(B)(i)	Storage Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use: Tank Opening	Y	
40 CFR 61.343(a)(1)(i)(B)	Storage Tank: Fixed Roof with Control Device	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
40 CFR 61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
40 CFR 61.343(d)	Standards: Tanks: Repairs	Y	
40 CFR 61.345(a)	Standards: Containers	Y	
40 CFR 61.345(a)(1)	Standards: Containers--Covers	Y	
40 CFR 61.345(a)(1)(i)	Standards: Containers— No detectable emissions Fugitives	Y	
40 CFR 61.345(a)(1)(ii)	Standards: Containers--Openings closed and sealed except when in <u>use</u>	Y	
40 CFR 61.345(a)(2)	Standards: Containers--Waste Transfer	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.345(b)	Standards: Containers--Quarterly <u>visual</u> inspection	Y	
40 CFR 61.345(c)	Standards: Containers--Repairs	Y	
40 CFR 61.346	Standards: Individual drain systems	Y	
40 CFR 61.346(b)(3)	Unburied Sewer Design	Y	
40 CFR 61.346(b)(4)(iv)	Unburied Sewer Quarterly Visual Inspection	Y	
40 CFR 61.346(b)(5)	Unburied Sewer Repair	Y	
40 CFR 61.348	Standards: Treatment process	Y	
40 CFR 61.348(e)	Treatment Process Openings	Y	
40 CFR 61.348(e)(1)	Treatment Process: Quarterly Visual Inspection	Y	
40 CFR 61.348(e)(2)	Treatment Process: Repair	Y	
40 CFR 61.348(f)	Treatment Process: Administrator may request demonstration that process meets the applicable requirements in (a) or (b) of this section via performance test using methods and procedures in 61.355	Y	
40 CFR 61.348(g)	Treatment Process: Monitoring with applicable requirements in 61.354	Y	
40 CFR 61.350	Standards: Delay of repair	Y	
40 CFR 61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
40 CFR 61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
40 CFR 61.353	Alternative means of emission limitation	Y	
40 CFR 61.354	Monitoring of operations	Y	
40 CFR 61.354 (a)(1)	Monitoring of operations: Monthly Benzene Sampling	Y	
40 CFR 61.354 (a)(2)	Monitoring of operations: Treatment Process Continuous Monitoring	Y	
40 CFR 61.354(e)	Monitoring of Operations: Control Device Continuous Monitoring	Y	
40 CFR 61.354(e)(4)	Process Heater Temperature Monitoring	Y	
40 CFR 61.354(e)(5)	Process Heater Monitoring	Y	
40 CFR 61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(a)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)	Y	
61.355(a)(1)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes	Y	
40 CFR 61.355(a)(1)(i)	Test Methods, Procedures, and Compliance Provisions: <u>For 61.355(d)(2) Annual Report</u>: Annual Waste Quantity Determination	Y	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.355(a)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report ; Annual Average Benzene Determination	Y	
40 CFR 61.355(a)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report ; Annual Benzene Quantity Calculation	Y	
40 CFR 61.355(a)(2)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB) ; TAB Calculation	Y	
40 CFR 61.355(a)(3)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB) ; -If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).	Y	
40 CFR 61.355(a)(6)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB) ; Turnaround Waste in TAB	Y	
40 CFR 61.355(b)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies	Y	
40 CFR 61.355(b)(1)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination location – Exception: Sour water strippers	Y	
40 CFR 61.355(b)(4)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste Quantity	Y	
40 CFR 61.355(b)(5)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records	Y	
40 CFR 61.355(b)(6)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity	Y	
40 CFR 61.355(b)(7)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements	Y	
61.355(c)	Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration	Y	
40 CFR 61.355(c)(1)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration shall meet all of the following criteria:	Y	
40 CFR 61.355(c)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration —Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.	Y	
40 CFR 61.355(c)(1)(i)(A)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration —Exception: Sour water streamstripper determination	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.355(c)(1)(i)(D)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Test Methods, Procedures, and Compliance Provisions: Process Unit Turnaround wastes Benzene Concentration Determination	Y	
40 CFR 61.355(c)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration	Y	
40 CFR 61.355(c)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration	Y	
40 CFR 61.355(c)(1)(iv)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section	Y	
40 CFR 61.355(c)(1)(v)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases	Y	
40 CFR 61.355(c)(2)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste Benzene Concentration Determination	Y	
40 CFR 61.355(c)(3)(i)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Waste Stream Sampling for Benzene Measurements of Benzene Concentration - procedures		
40 CFR 61.355(c)(3)(ii) through 40 CFR 61.355(c)(3)(v)	Test Methods	Y	
40 CFR 61.355(e)	Test Methods	Y	
40 CFR 61.355(f)	Test Methods	Y	
40 CFR 61.355(h)	Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods	Y	
40 CFR 61.355(i)	Test Methods	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
40 CFR 61.355(k)(1)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40-CFR 61.355(k)(2)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ: determine benzene quantity in controlled waste streams</u> For each waste stream that is controlled for air emissions in accordance with 61.343, 61.344, 61.345, 61.346, 61.347, or 61.348(a), as applicable to the waste management unit that manages the waste, the determination of annual waste quantity and flow weighted annual average benzene concentration shall be made at the first applicable location as described in paragraphs (k)(2)(i), (k)(2)(ii), and (k)(2)(iii) of this section and prior to any reduction of benzene concentration through volatilization of the benzene, using the methods given in (k)(2)(iv) and (k)(2)(v) of this section.	Y	
40-CFR 61.355(k)(2)(i)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ: determine benzene quantity in controlled waste streams: OPTION 1: Make determination Wwhere the waste stream enters the first uncontrolled waste management unit not</u> complying with 61.343, 61.344, 61.345, 61.346, 61.347, and 61.348(a) that are applicable to the waste management unit,	Y	
40-CFR 61.355(k)(2)(ii)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ: determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility</u> For each waste stream that is managed or treated only in compliance with 61.343 through 61.348(a) up to the point of final direct discharge from the facility, the determination of benzene quantity shall be prior to any reduction of benzene concentration through volatilization of the benzene, or	Y	
40-CFR 61.355(k)(2)(iii)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ: determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.</u> For wastes managed in units controlled for air emissions in accordance with 61.343, 61.344, 61.345, 61.346, 61.347, and 61.348(a), and then transferred offsite, facilities shall use the first applicable offsite location as described in paragraphs (k)(2)(i) and (k)(2)(ii) of this section if they have documentation from the offsite facility of the benzene quantity at this location. Facilities without this documentation for offsite wastes shall use the benzene quantity determined at the point where the transferred waste leaves the facility.	Y	
40-CFR 61.355(k)(2)(iv)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ: Treat to 6 Controlled-Stream Waste QuantityDetermine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)</u>	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.355(k)(2)(v)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)Treat to 6 Controlled Stream Benzene Concentration	Y	
40 CFR 61.355(k)(3)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 Determine benzene quantity in wWaste generated less than one time per year	Y	
40 CFR 61.355(k)(5)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams Benzene Quantity Determination	Y	
40 CFR 61.355(k)(2)(6)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method for aqueous (uncontrolled) wastestreamsCalculation	Y	
61.355(k)(7)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting	<u>Y</u>	
40 CFR 61.356	Recordkeeping Requirements	Y	
40 CFR 61.356(a)	Recordkeeping and retention requirements; Retention	Y	
40 CFR 61.356(b)	Recordkeeping requirements; Waste stream records	Y	
40 CFR 61.356(b)(1)	Recordkeeping requirements; Uncontrolled Waste Stream Records	Y	
40 CFR 61.356(b)(4)	Recordkeeping requirements; Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements; Process unit turnaround waste records	<u>Y</u>	
61.356(b)(6)	Recordkeeping requirements; 61.348(b)(2) records	<u>Y</u>	
40 CFR 61.356(c)	Recordkeeping requirements; Offsite Waste Transfer Records	Y	
40 CFR 61.356(d)	Recordkeeping Requirements: Control equipment engineering design	<u>Y</u>	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	<u>Y</u>	
40 CFR 61.356(e)(1)	A statement signed and dated by the owner or operator certifying that the unit is designed to operate at the documented performance level when the waste stream entering the unit is at the highest waste stream flow rate and benzene content expected to occur.	<u>Y</u>	
40 CFR 61.356(e)(2)	If engineering calculations are used to determine treatment process or wastewater treatment system unit performance, then the owner or operator shall maintain the complete design analysis for the unit. The design analysis shall include for example the following information: Design specifications, drawings, schematics, piping and instrumentation diagrams, and other documentation necessary to demonstrate the unit performance.	<u>Y</u>	
40 CFR 61.356(e)(3)	If performance tests are used to determine treatment process or wastewater treatment system unit performance, then the owner or operator shall maintain all test information necessary to demonstrate the unit performance.	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.356(e)(3)(i)	Description of unit	Y	
40 CFR 61.356(e)(3)(ii)	Documentation of test protocol	Y	
40 CFR 61.356(e)(3)(iii)	Records of unit operating conditions during each test	Y	
40 CFR 61.356(e)(3)(iv)	All test results	Y	
40 CFR 61.356(e)(4)	Control Device records required by paragraph (f) of this section	Y	
40 CFR 61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349 – retain for life of device	Y	
40 CFR 61.356(f)(1)	Control Device Certification	Y	
40 CFR 61.356(f)(2)	Control Device Design Analysis	Y	
40 CFR 61.356(f)(2)(i)	Control Device P&IDs	Y	
40 CFR 61.356(f)(2)(i)(C)	Boiler/Heater Design Analysis	Y	
40 CFR 61.356(f)(3)	If performance tests are used to determine control device performance in accordance with Sec. 61.349(e) of this subpart:	Y	
40 CFR 61.356(f)(3)(i)	A description of how it is determined that the test is conducted when the waste management unit or treatment process is operating at the highest load or capacity level. This description shall include the estimated or design flow rate and organic content of each vent stream and definition of the acceptable operating ranges of key process and control parameters during the test program.	Y	
40 CFR 61.356(f)(3)(ii)	A description of the control device including the type of control device, control device manufacturer's name and model number, control device dimensions, capacity, and construction materials.	Y	
40 CFR 61.356(f)(3)(iii)	A detailed description of sampling and monitoring procedures, including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis.	Y	
40 CFR 61.356(f)(3)(iv)	All test results.	Y	
40 CFR 61.356(g)	Recordkeeping Requirements: Visual inspections per 61.343 through 61.347	Y	
40 CFR 61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(i)(1)	Startup and Shutdown dates	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.356(i)(2)	Benzene Concentration Measurement 61.354(a)(1) dates and results	Y	
40 CFR 61.356(i)(3)	Description of parameters to be monitored	Y	
40 CFR 61.356(i)(4)	Benzene Concentration Measurement 61.354(b) dates and results	Y	
40 CFR 61.356(i)(5)	Period when unit is not operated as designed	Y	
40 CFR 61.356(j)	Recordkeeping Requirements: Control device operation	Y	
40 CFR 61.356(j)(1)	Startup and Shutdown dates	Y	
40 CFR 61.356(j)(2)	Description of parameters to be monitored	Y	
40 CFR 61.356(j)(3)	Periods when closed vent system and control device are not operated as designed including:	Y	
40 CFR 61.356(j)(3)(i)	Any valve ear seal or closure mechanism 61.349(a)(1)(ii) is broken or by-pass line valve position has changed	Y	
40 CFR 61.356(j)(3)(ii)	Flow monitoring devices 61.349(a)(1)(ii) indicate vapors are not routed to the control device as required	Y	
40 CFR 61.356(j)(6)	Heater Records	Y	
40 CFR 61.357	Reporting Requirements	Y	
40 CFR 61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: TAB determined in accordance with 61.355(a)	Y	
40 CFR 61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Waste stream table (identify as controlled or uncontrolled) Table identifying each waste stream and whether or not the waste stream will be controlled for benzene emissions in accordance with the requirements of this subpart	Y	
40 CFR 61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: For each waste stream identified as not being controlled for benzene emissions in accordance with the requirements of this subpart the following information shall be added to the table: Uncontrolled waste stream data	Y	
40 CFR 61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
40 CFR 61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
40 CFR 61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40-CFR 61.357(a)(3)(iv)	<u>Reporting Requirements - Annual Benzene Report Contents</u> [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
40-CFR 61.357(a)(3)(v)	<u>Reporting Requirements - Annual Benzene Report Contents</u> [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	
40-CFR 61.357(a)(3)(vi)	<u>Reporting Requirements - Annual Benzene Report Contents</u> [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
40-CFR 61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
40-CFR 61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
40-CFR 61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 Report waste stream data requirements: If complying with the requirements of 61.342(e), then the report in (d)(2) of this section shall include a table with the following for each waste stream:	Y	
40-CFR 61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streamsIf identified as not controlled for benzene emissions, the table shall report at the point of waste generation: annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity;	Y	
40-CFR 61.357(d)(5)(ii)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streamsIf identified as controlled for benzene emissions, the table shall report at the applicable location in 61.355(k)(2): annual waste quantity, range of benzene concentrations, annual average flow-weighted benzene concentration, and annual benzene quantity	Y	
40-CFR 61.357(d)(6)	Reporting Requirements: Quarterly Inspection Verification Report	Y	
40-CFR 61.357(d)(7)	Reporting Requirements: Quarterly Report Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph (d)(1) of this section, the owner or operator shall submit a report quarterly to the Administrator that includes:	Y	
61.357(d)(7)(i)	Reporting Requirements: Quarterly Report: Records of Operation Outside of Range – Treatment Process or Wastewater Treatment System Unit monitored per 61.354(a)(1)	<u>Y</u>	
40-CFR 61.357(d)(7)(ii)	Reporting Requirements: Quarterly Report: Records of Operation Outside of Range – Treatment Process or Wastewater Treatment System Unit monitored per 61.354(a)(2)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.357(d)(7)(iv)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Monitoring Records	Y	
40 CFR 61.357(d)(7)(iv)(C)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Process Heater Operation Low Temperature	Y	
40 CFR 61.357(d)(7)(iv)(G)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Change in Heater Design	Y	
40 CFR 61.357(d)(8)	Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected Detectable Emissions	Y	
40 CFR 61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
40 CFR 61.357(g)	Reporting Requirements for 61.352 tank seal gaps	Y	
NESHAP Title 40 Part 63 40 CFR 63 Subpart A	NESHAPs for Source Categories - General Provisions of MACT Standards (12/22/2008) 03/16/94		
40 CFR 63.1	Applicability	Y	
40 CFR 63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
40 CFR 63.4	Prohibited activities and circumvention	Y	
40 CFR 63.5	Construction and Reconstruction Preconstruction review and notification requirements	Y	
40 CFR 63.6	Compliance with standards and maintenance requirements	Y	
40 CFR 63.7	Performance testing requirements	Y	
40 CFR 63.8	Monitoring requirements	Y	
40 CFR 63.9	Notification requirements	Y	
40 CFR 63.10	Recordkeeping and reporting requirements	Y	
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	
63.16	Performance Track Provisions	Y	
40 CFR 63 Subpart B	National Emission Standards for Hazardous Air Pollutants NESHAPs 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 (07/11/2005)		
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 Industrial Boilers, Institutional/Commercial Boilers, and Process Heaters	Y	6/27/04
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Industrial Boilers, Institutional/Commercial Boilers, and Process Heaters (that burn hazardous waste)	Y	11/12/05
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	
40 CFR 63 -Subpart G	<u>NESHAPs for Source Categories: SO2MI Process Vents, Storage Vessels, Transfer Operations, and Wastewater (12/21/2006)</u> <u>Requirements for Storage Vessels Subject to 63 Subpart CC</u>		
63.120(b)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service	Y	
63.120(b)(2)	Primary seal gap standards	Y	
63.120(b)(3)	Secondary seal gap standards	Y	
63.120(b)(4)	Seal gap measurement methods	Y	
40 CFR 63 Subpart R	<u>NESHAPs for Source Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/22/2008)</u> <u>(Requirements for owner/operators of gasoline trucks loaded at S1025)</u>		

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<u>63.425</u>	<u>Test Methods and procedures</u>	<u>Y</u>	
<u>63.425(e)</u>	<u>Annual certification test – gasoline cargo tanks [conducted by cargo truck owner]</u>	<u>Y</u>	
<u>63.425(f)</u>	<u>Leak detection test (Method 21) – gasoline cargo tanks [conducted by cargo truck owner]</u>	<u>Y</u>	
<u>63.425(g)</u>	<u>N2 pressure decay field test – gasoline cargo tanks [conducted by cargo truck owner]</u>	<u>Y</u>	
<u>63.425(h)</u>	<u>Continuous performance pressure decay test – gasoline cargo tanks [conducted by cargo truck owner]</u>	<u>Y</u>	
NESHAP Title 40 Part 40 CFR 63 Subpart CC	<u>NESHAPs for Source Categories - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (06/23/2003)</u>	<u>Y</u>	
<u>63.640(a)</u>	<u>Applicability applies to petroleum refining process units and related emission points</u>	<u>Y</u>	
<u>63.640(c)</u>	<u>Applicability and Determination of Affected Source – Includes all emission points listed in subpart</u>	<u>Y</u>	
<u>63.640(d)</u>	<u>Applicability and Determination of Affected Source – Exclusions</u>	<u>Y</u>	
<u>63.640(e)</u>	<u>Applicability and Determination of Affected Source – Storage Vessels</u>	<u>Y</u>	
<u>63.640(f)</u>	<u>Applicability and Determination of Affected Source – Miscellaneous Process Vents</u>	<u>Y</u>	
<u>63.640(g)</u>	<u>Applicability and Determination of Affected Source – Exempt Processes</u>	<u>Y</u>	
<u>63.640(h)</u>	<u>Applicability and Determination of Affected Source – Compliance dates</u>	<u>Y</u>	
<u>63.640(i)</u>	<u>Applicability and Determination of Affected Source – Additional petroleum refining process units at existing major source</u>	<u>Y</u>	
<u>63.640(j)</u>	<u>Applicability and Determination of Affected Source – Changes to existing petroleum refining process units</u>	<u>Y</u>	
<u>63.640(k)</u>	<u>Applicability and Determination of Affected Source – Additional requirements for new or changed process units if subject to requirements for new process units in 63.640(i) or (j)</u>	<u>Y</u>	
<u>63.640(l)</u>	<u>Applicability and Determination of Affected Source – Requirements for added Group 1 emission points (i.e. process vents, storage vessels, etc) not subject to requirements for new process units in 63.640(i) or (j)</u>	<u>Y</u>	
<u>63.640(m)</u>	<u>Applicability and Determination of Affected Source – Changes causing Group 2 emission points to become Group 1 points</u>	<u>Y</u>	
<u>63.640(q)</u>	<u>Applicability and Determination of Affected Source 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.</u>	<u>Y</u>	
<u>63.641</u>	<u>Definitions</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	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	
63.643	Miscellaneous process vent provisions	Y	
63.644	Monitoring provisions for miscellaneous process vents	Y	
63.645	Test methods and procedures for miscellaneous process vents	Y	
<u>63.647</u>	<u>Wastewater Provisions</u>	<u>Y</u>	
40 CFR-63.647(a)	Wastewater Provisions; <u>Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF</u>	Y	
63.647(b)	Wastewater Provisions; <u>Definitions</u>	Y	
40 CFR-63.647(c)	Wastewater Provisions; <u>Operation consistent with minimum or maximum permitted concentrations or operating parameter values</u>	Y	
63.654	Reporting and Recordkeeping Requirements	Y	
63.654(a)	<u>Reporting and recordkeeping requirements: Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF</u>	Y	
63.654(e)	Reporting and Recordkeeping Requirements; <u>Periodic Reports</u> Required Reports and Records	Y	
63.654(f)	Reporting and Recordkeeping Requirements; <u>Notification of Compliance Status Reports</u>	Y	
63.654(g)	Periodic Reporting and Recordkeeping Requirements; <u>Periodic Reports</u> Record Maintenance	Y	
63.654(h)	Reporting and Recordkeeping Requirements; <u>Other reports</u>	Y	
63.654(i)	Reporting and Recordkeeping Requirements; <u>Recordkeeping</u>	Y	
<u>Appendix Table 1</u>	<u>Hazardous Air Pollutants</u>	<u>Y</u>	
<u>Appendix Table 6</u>	<u>General Provisions Applicability to Subpart CC</u>	<u>Y</u>	
63.654 (g) (6)	Report Excess Emissions for Miscellaneous Process Vents	Y	
NESHAPS Title 40 Part 40 CFR 63 Subpart UUU	<u>NESHAPs for Source Categories - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/2006/04/20/2006)</u>		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1560	Applicability and Designation of Affected Facilities	Y	
63.1561	Applicability	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	Affected Sources	Y	
63.1562(a)	Applicable to any new, reconstructed, or existing source at a petroleum refinery	Y	
63.1562(b)	Applicable affected sources include catalytic regenerators, catalytic reforming units, sulfur recovery units, and bypass lines serving affected units	Y	
63.1562(c)	An affected source is a new source if commenced construction after September 11, 1998	Y	
63.1562(d)	An affected source is reconstructed per 63.2	Y	
63.1562(e)	An affected source is existing if it is not new or reconstructed.	Y	
63.1562(f)	Subpart UUU does not apply to:	Y	
63.1562(f)(4)	equipment associated with bypass lines including low leg drains, high point bleed, analyzer vents, open-ended valves or lines, or pressure relief valves needed for safety reasons.	Y	
63.1562(f)(5)	gaseous streams routed to a fuel gas system.	Y	
63.1563	Compliance Schedule	Y	
63.1563(a)	Compliance schedule for new and reconstructed sources	Y	
63.1563(a)(2)	Comply with emission limitations and work practice standards for new and reconstructed sources upon startup of the affected source	Y	
63.1563(b)	Comply with the emission limitations and work practice standards for existing sources by April 11, 2005.	Y	
63.1563(e)	Meet the notification requirements according to 63.1574 and 40 CFR 60 Part 63 Subpart A.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Operate and compliance with opacity and visible emission limits as specified in 63.6(h)(1)	Y	
63.1570(e)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1)	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(a)(1)	If initial compliance is not demonstrated by performance test, opacity observation, or visible emission observation, then conduct initial compliance demonstration within 30 calendar days after compliance date.	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(c)	Procedures for engineering assessments	Y	
63.1571(d)	Adjustments to values measured during performance tests	Y	
63.1571(e)	Changes in established operating limits	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(e)	Automated data compression system (optional)	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Semiannual compliance report (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in semiannual compliance report	Y	
63.1575(d)	Information required in compliance report for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required in compliance report for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	
NESHAP Title 40 Part 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Y	By February 5, 2007 for existing sources. Upon start-up for new sources.

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2334 to 63.2342	Applicability		
63.2342(b)(2)	Existing Floating Roof Storage Tanks		After next degassing or cleaning or February 3, 2014. If degassing or cleaning w/ 3 years years of February 3, 2004, then February 5, 2007.
63.2350	General Compliance Requirements		
63.2352 to 63.2370	Testing and Initial Compliance Requirements		
63.2374 to 63.2378	Continuous Compliance Requirements		
63.2382 to 63.2394	Notifications, Reports, and Records		
63.2396 to 63.2406	Other Requirements and Information		
NESHAP Title 40 Part 63 Subpart YYYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	Y	Upon start-up for new sources.
63.6080 to 63.6095	Applicability		
63.6100	Emissions and Operating Limitations		
63.6105	General Compliance Requirements		
63.6110 to 63.6130	Testing and Initial Compliance Requirements		
63.6135 to 63.6140	Continuous Compliance Requirements		
63.6145 to 63.6160	Notifications, Reports, and Records		
63.6165 to 63.6175	Other Requirements and Information		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP Title 40 Part 40 CFR 63 Subpart GGGGG	National Emission Standards for Hazardous Air Pollutants for NESHAPS for Source Categories - Site Remediation (11/29/2006)	Y	By October 9, 2006 for existing sources. Upon start-up for new sources.
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7881	Applicability: Am I subject to this subpart?	Y	
63.7881(a)	Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:	Y	
63.7881(a)(1)	___ (1) Site remediation cleans up a remediation material (63.7957 definition)	Y	
63.7881(a)(2)	___ (2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	___ (3) Facility with remediation activity is a major source of HAP	Y	
63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	___ (1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	___ (2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	___ (3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	___ Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	___ Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	___ Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	___ Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards – each site remediation with affected sources	Y	
63.7884(a)	General Standards – comply with 63.7885 though 63.7955 as they apply to the affected sources	Y	
63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	
63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m3/min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m3/min at standard conditions and the total HAP concentration is < 20 ppmw	Y	
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1a: Control HAP emissions for tanks	Y	
63.7886(b)(1)(ii)	Option 1b: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1e: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	
63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	
63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks sued for waste stabilization process, use Tank Level 2 controls	Y	
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	
63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	
63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	
63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	
63.7898(a)	Comply with applicable requirement in 63.7895	Y	
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	
63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	
63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m3. Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers <= 0.46 m3; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m3; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m3; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m3 require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	
63.7900(b)(3)(ii)	Containers > 0.46 m3 require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 013 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m3: Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m3 that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	
63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	
63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63.7927	Y	
63.7903	Containers – Continuous Compliance	Y	
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7910	Separators – Emission limits and work practice standards	Y	
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	____ Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	____ Separator controls – Option 2: Fixed roof vented to control device	Y	
63.7910(b)(3)	____ Separator controls – Option 3: Pressurized separator	Y	
63.7910(c)	Separators – Alternatives may be approved	Y	
63.7911	Separators – Initial Compliance	Y	
63.7911(a)	Separators – Initial compliance per 63.7910	Y	
63.7911(b)	Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(b)(1)	____ Records documenting design and installation of roof and closure devices	Y	
63.7911(b)(2)	____ Operate floating roof and closure devices per 63.1043(c)	Y	
63.7911(b)(3)	____ Initial seal gap measurement performed and records available	Y	
63.7911(b)(4)	____ Initial visual inspection performed and records available	Y	
63.7911(b)(5)	____ Fixed roof portions meet requirements of 63.7901(c)	Y	
63.7911(c)	Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(c)(1)	____ Records documenting design and installation of roof and closure devices	Y	
63.7911(c)(2)	____ Operate fixed roof and closure devices per 63.1042(c)	Y	
63.7911(c)(3)	____ Initial visual inspection performed and records available	Y	
63.7911(c)(4)	____ Initial compliance demonstrated with emission limits and work practice standards	Y	
63.7911(d)	Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(d)(1)	____ Records documenting design and installation of pressurized separator	Y	
63.7911(d)(2)	____ Operate pressurized separator per 63.1045(b)(3)	Y	
63.7912	Separators – Inspection and monitoring requirements	Y	
63.7912(a)	Separators – Inspection and monitoring requirements – Floating roof	Y	
63.7912(a)(1)	____ Annual seal gap measurement	Y	
63.7912(a)(2)	____ Annual visual inspection	Y	
63.7912(b)	Separators – Inspection and monitoring requirements – Cover vented to control device	Y	
63.7912(b)(1)	____ Visual inspection of cover and closure device	Y	
63.7912(b)(2)	____ Closed vent system and control device monitoring and inspection	Y	
63.7912(c)	Separators – Inspection and monitoring requirements – Pressurized separator	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7913	Separators – Continuous compliance	Y	
63.7913(a)	Separators – Continuous compliance requirements	Y	
63.7913(b)	Separators with floating roof – Continuous compliance	Y	
63.7913(b)(1)	Operate and maintain floating roof	Y	
63.7913(b)(2)	Annual seal gap measurements	Y	
63.7913(b)(3)	Annual visual inspections	Y	
63.7913(b)(4)	Repair defects	Y	
63.7913(b)(5)	Recordkeeping	Y	
63.7913(b)(6)	Compliance documentation records	Y	
63.7913(c)	Separators with fixed roof vented to control device – Continuous compliance	Y	
63.7913(c)(1)	Operate and maintain fixed roof and closure device	Y	
63.7913(c)(2)	Annual visual inspections	Y	
63.7913(c)(3)	Repair defects	Y	
63.7913(c)(4)	Recordkeeping	Y	
63.7913(c)(5)	Compliance documentation records	Y	
63.7913(d)	Separators - pressurized	Y	
63.7913(d)(1)	Operating at all times as required	Y	
63.7913(d)(2)	Annual visual inspection	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O2	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time >= 0.5 seconds and temperature >= 760C	Y	
63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	
63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	
63.7926(c)(2)	Option 2: Document max emissions <= 20 ppmvd @ 3% O2 demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction >= 95%	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions <= 20 ppmvd @ 3% O2	Y	
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration - Comply with applicable methods for affected sources	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	
63.7941(e)	Initial Compliance Demonstration – Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration – CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration – Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration – Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration – Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration – Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration – Reporting requirements for performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems – installation, operation, and maintenance requirements	Y	
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	
63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation , or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
40 CFR Part 98	Mandatory Greenhouse Gas Reporting		
Subpart A	General Provisions		
98.1	Purpose and scope	Y	
98.2	Who must report?	Y	
98.2(a)(1)(xi)	Petroleum refineries	Y	
98.2(a)(4)(ii)	Petroleum Product Suppliers	Y	
98.2(i)	Duration of reporting	Y	
98.3	What are the general monitoring, reporting, recordkeeping and verification requirements of this part?	Y	
98.3(a)	General	Y	
98.3(b)	Schedule	Y	
98.3(c)	Content of the annual report	Y	
98.3(d)	Special provisions for reporting year 2010	Y	
98.3(e)	Emission calculations	Y	
98.3(f)	Verification	Y	
98.3(g)	Recordkeeping	Y	
98.3(h)	Annual GHG report revisions	Y	
98.3(i)	Calibration accuracy requirements	Y	
98.4	Authorization and responsibilities of the designated representative	Y	
98.5	How is the report submitted?	Y	
98.8	What are the compliance and enforcement provisions of this part?	Y	
Subpart C	General Stationary Fuel Combustion Sources		
98.30	Definition of source category	Y	
98.31	Reporting threshold	Y	
98.32	GHGs to report	Y	
98.33	Calculating GHG emissions	Y	
98.34	Monitoring and QA/QC requirements	Y	
98.35	Procedures for estimating missing data	Y	
98.36	Data reporting requirements	Y	
98.37	Records that must be retained	Y	
98.38	Definitions	Y	
Subpart Y	Petroleum Refineries		
98.250	Definition of source category	Y	
98.251	Reporting threshold	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
98.252	GHGs to report	Y	
98.253	Calculating GHG emissions	Y	
98.254	Monitoring and QA/QC requirements	Y	
98.255	Procedures for estimating missing data	Y	
98.256	Data reporting requirements	Y	
98.257	Records that must be retained	Y	
98.258	Definitions	Y	
Subpart MM	Suppliers of Petroleum Products		
98.390	Definition of source category	Y	
98.391	Reporting threshold	Y	
98.392	GHGs to report	Y	
98.393	Calculating GHG emissions	Y	
98.394	Monitoring and QA/QC requirements	Y	
98.395	Procedures for estimating missing data	Y	
98.396	Data reporting requirements	Y	
98.397	Records that must be retained	Y	
98.398	Definitions	Y	
CA Code of Regulations, Title 17, Subchapter 10, Article 2	Mandatory Greenhouse Gas Emissions Reporting		
§ 95101(b)(2)	Applicability	N	
Subarticle 1	General Requirements for the Mandatory Reporting of Greenhouse Gas Emissions		
§ 95102	Definitions	N	
§ 95103(a)	General Greenhouse Gas Reporting Requirements	N	
§ 95103(a)(1)	Report Content	N	
§ 95103(a)(2)	Stationary Sources	N	
§ 95103(b)	Reporting Schedule – Existing Facilities	N	
§ 95103(c)	Verification – Existing Facilities	N	
§ 95104	Greenhouse Gas Emissions Data Report	N	
§ 95104(a)	Emissions Data Report	N	
§ 95104(b)	Maintaining the GHG Inventory Program	N	
§ 95104(c)	Data Completeness	N	
§ 95104(d)	Revisions	N	
§ 95105	Document Retention and Record Keeping Requirements	N	
§ 95106	Confidentiality	N	
§ 95107	Enforcement	N	
§ 95108	Severability	N	
§ 95113	Data Requirements and Calculation Methods for Petroleum Refineries	N	
§ 95113(a)	Greenhouse Gas Emissions Data Report	N	
§ 95113(b)	Calculation of Process Emissions	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
§ 95113(c)	Calculation of Fugitive Emissions	N	
§ 95113(d)	Calculation of Emissions from Flares and other Control Devices	N	
§ 95114	Data Requirements and Calculation Methods for Hydrogen Plants	N	
§ 95114(a)	Greenhouse Gas Emissions Data Report	N	
§ 95114(b)	Calculation of CO2 Stationary Combustion and Process Emissions	N	
Subarticle 3	Calculation Methods Applicable To Multiple Types of Facilities		
§ 95125	Additional Calculation Methods	N	
Subarticle 4	Requirements for Verification of Greenhouse Gas Emissions Data Reports and Requirements Applicable to Emissions Data Verifiers		
§ 95130	Requirements for Verification of Emissions Data Reports	N	
BAAQMD Condition # 5379	Refinery Wide Permit Conditions		
Part 1	Access to crude lightering vessels (basis: cumulative increase)	Y	
Part 2	Voyage history (basis: cumulative increase, offsets, bubble)	Y	
Part 3	U.S. Army Corps of Engineers form 3925 (basis: cumulative increase, offsets, bubble)	Y	
Part 4	Controlled transfer quarterly verification (basis: cumulative increase, offsets, bubble)	Y	
Part 5	Emission factors (basis: cumulative increase, offsets, bubble)	Y	
Part 6	Maximum pressure, pressure excursions, pressure relief valve lifting (basis: cumulative increase, offsets)	Y	
Part 7	Vessel pressure continuous recording (cumulative increase, offsets, bubble)	Y	
Part 8	Lightering tank vessel leak testing requirement (basis: cumulative increase, offsets, bubble)	Y	
Part 9	Inert gas system requirement and use of controlled emission factors (basis: cumulative increase, offsets, bubble)	Y	
Part 10	Fugitive emission maintenance program (basis: cumulative increase, offsets, bubble)	Y	
Part 11	Fugitive emission survey requirements (basis: cumulative increase, offsets, bubble)	Y	
Part 12	Prohibition against venting of crude oil vapors to atmosphere (basis: cumulative increase, offsets, bubble)	Y	
Part 13	Emission cap adjustment concurrent with Reg. 8, Rule 46 effective date and cap reduction proration provision (basis: cumulative increase, offsets, bubble)	Y	
BAAQMD Condition 8077			
Part B1	Definitions	Y	
Part B2	Emissions – see Table A of Appendix A basis: cumulative increase, bubble, BACT	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B2E	Emissions Cap – Exceedances of B2A and B2B	Y	
Part B3	Emission Reductions when limits in B2 are exceeded	Y	
Part B3A	Emission Reductions for exceedances of annual emission limits (B2A) (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions for exceedances of monthly maximum emission limits (B2B) (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions for exceedances of monthly compensatory emission limits (B2C) (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions for exceedances of B2D cumulative emissions limits (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions - Hydrocarbon offsets for NOx (basis: cumulative increase, bubble)	Y	
Part B3F	Emission Reductions - Requirements for offsets for required abatement equipment (basis: cumulative increase, bubble, offsets)	Y	
Part B5	Reporting and Recordkeeping (basis: cumulative increase, offsets)	Y	
Part B5A	Recordkeeping and retention (basis: cumulative increase, offsets)	Y	
Part B5B	Monthly report [EMIT Report] (basis: cumulative increase, offsets)	Y	
Part B5C	Monthly audits (basis: cumulative increase, offsets)	Y	
Part B8	Hydrocarbon Controls	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B9B	Emergency operations without sulfur recovery	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
Appendix A	Refinery emission sources covered by Cap emission limitations	Y	
Appendix B	Data for determining emissions from marine activity	Y	
Appendix C	Procedures for determining emissions from refinery sources identified in Appendix A	Y	
Appendix D	Emission and fuel use monitoring instruments and procedures	Y	
BAAQMD Condition # 10525	Refinery Wide Permit Conditions		
Part 6	Daily POC Emission Limitation on Marine Transport and Transfer of MTBE, ETBE and TAME, and Ship Ballasting, Vessel Unloading, Ship and Tug Boat Engines (basis: cumulative increase, offsets, toxics)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	Record Keeping for Ship and Barge deliveries of MTBE, ETBE, and TAME and Monthly Emission Calculations for Inclusion with Totals from Condition ID # 4357, Part 2, Part 2 (basis: cumulative increase, offsets)	Y	
Part 8	Requirement for Pressure Relief Valves to Be Vented to Flare Gas Vapor Recovery System (basis: Regulation 8 28, BACT)	Y	
<u>BAAQMD Condition 18379</u>	<u>Refinery Wide Permit Conditions</u>		
Part 1	<u>Limitation to use ERCs from banking application #3180 (permanent closure of S-940) only for Facility B2758. (basis: Regulation 2, Rule 4, Section 302.1)</u>	Y	
BAAQMD Condition # 19528	Refinery Wide Permit Conditions		
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 16	Startup/Shutdown Notification (basis: Regulation 2-1-403)	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 1	<u>Permits, General Requirements (07/19/20068/1/01)</u>		
2-1-429	Federal Emissions Statement	N	
BAAQMD - Regulation 8 Rule 5	<u>Organic Compounds – Storage of Organic Liquids (10/18/2006)</u>		
8-5-117	<u>Limited Exemption, Low Vapor Pressure</u>	N	
<u>8-5-119</u>	<u>Limited Exemption, Repair Period</u>	N	
8-5-118	<u>Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u>	N	
8-5-328	<u>Tank Degassing Requirements</u>	N	
8-5-328.1	<u>Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device</u>	N	
8-5-331	<u>Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used</u>	N	
8-5-332	<u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u>	N	
8-5-332.1	<u>Sludge Handling Requirements; sludge container no leaks</u>	N	
8-5-332.2	<u>Sludge Handling Requirements; sludge container gap requirements</u>	N	
8-5-404	<u>Inspection, Abatement Efficiency Determination, and Source Test Reports</u>	N	
8-5-411	<u>Enhanced Monitoring Program (Optional)</u>	N	
8-5-411.1	<u>Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program</u>	N	
8-5-411.2	<u>Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program</u>	N	
8-5-501	<u>Records</u>	N	
8-5-501.3	<u>Records: Retention</u>	N	
8-5-501.4	<u>Records: New PV setpoints</u>	N	
8-5-502	<u>Source Test Requirements and exemption for sources vented to fuel gas</u>	N	
8-5-502.2	<u>Source Test Requirements; Tank degassing and cleaning abatement devices</u>	N	
8-5-602	<u>Analysis of Samples, True Vapor Pressure</u>	Y	
8-5-603	<u>Determination of Abatement Efficiency</u>	N	
8-5-604	<u>Determination of Applicability Based on True Vapor Pressure</u>	Y	
SIP Regulation 8 Rule 5	<u>Organic Compounds – Storage of Organic Liquids (06/05/2003)</u>		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-117	<u>Exemption, Low Vapor Pressure</u>	<u>Y</u>	
8-5-328	<u>Tank Degassing Requirements</u>	<u>Y</u>	
8-5-328.1	<u>Tank Degassing Requirements; Tanks > 75 cubic meters</u>	<u>Y</u>	
8-5-328.1.2	<u>Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System</u>	<u>Y</u>	
8-5-328.2	<u>Tank Degassing Requirements; Ozone Excess Day Prohibition</u>	<u>Y</u>	
8-5-404	<u>Certification</u>	<u>Y</u>	
8-5-501	<u>Records</u>	<u>Y</u>	
8-5-502	<u>Tank degassing annual source test requirement</u>	<u>Y</u>	
8-5-603	<u>Determination of emissions</u>	<u>Y</u>	
8-5-603.2	<u>Source tests for tank degassing equipment</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 40	<u>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)</u>		
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	
8-40-403	<u>Reporting, Excavation of Contaminated Soil</u>	<u>Y</u>	
8-40-404	<u>Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs</u>	<u>Y</u>	
8-40-405	<u>Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities</u>	<u>Y</u>	
8-40-601	<u>Contaminated Soil Sampling</u>	<u>Y</u>	
8-40-602	<u>Measurement of Organic Content</u>	<u>Y</u>	
8-40-604	<u>Measurement of Organic Concentration</u>	<u>Y</u>	
8-40-605	<u>Analysis of Samples Initial Boiling Point</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	<u>Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)</u>	Y	
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
9-1-501	Area Monitoring Requirements	Y	
9-1-601-604	Ground Level Monitoring	Y	
BAAQMD Regulation 9, Rule 2	<u>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/06/1999)</u>	Y	
9-2-110	Exemptions	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources – Incorporated by reference (2/16/2000)</u>		
10-1	Subpart A – General Provisions (12/20/1995)	<u>Y</u>	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	<u>Y</u>	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</u>	<u>Y</u>	
<u>40 CFR 60 Subpart A</u>	<u>NSPS - General Provisions (06/01/2006)</u>		
60.1	<u>Applicability</u>	<u>Y</u>	
60.2	<u>Definitions</u>	<u>Y</u>	
60.3	<u>Units and Abbreviations</u>	<u>Y</u>	
60.4	<u>Address</u>	<u>Y</u>	
60.5	<u>Determination of Construction or Modification</u>	<u>Y</u>	
60.6	<u>Review of Plans</u>	<u>Y</u>	
60.7	<u>Notification and Recordkeeping</u>	<u>Y</u>	
60.8	<u>Performance Tests</u>	<u>Y</u>	
60.9	<u>Availability of Information</u>	<u>Y</u>	
60.11	<u>Compliance with Standards and Maintenance Requirements</u>	<u>Y</u>	
60.12	<u>Circumvention</u>	<u>Y</u>	
60.13	<u>Monitoring Requirements</u>	<u>Y</u>	
60.14	<u>Modification</u>	<u>Y</u>	
60.15	<u>Reconstructions</u>	<u>Y</u>	
60.17	<u>Incorporated by Reference</u>	<u>Y</u>	
60.19	<u>General Notification and Reporting Requirements</u>	<u>Y</u>	
<u>40 CFR 60 Subpart Kb</u>	<u>NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)</u>		
60.113b(b)(1)	<u>Testing and Procedures; External floating roof seal gap measurement frequency</u>	<u>Y</u>	
60.113b(b)(1)(i)	<u>Measurement of gaps between tank wall and primary seal</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.113b(b)(1)(ii)	Measurement of gaps between tank wall and secondary seal	<u>Y</u>	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	<u>Y</u>	
60.113b(b)(2)	Primary seal gap standards	<u>Y</u>	
60.113b(b)(3)	Secondary seal gap standards	<u>Y</u>	
60.113b(b)(4)	Seal gap measurement methods	<u>Y</u>	
40 CFR 61 Subpart A	NESHAPS, General Provisions (04/09/2004)		
61.01	Lists of Pollutants and Applicability of Part 61	<u>Y</u>	
61.02	Definitions	<u>Y</u>	
61.03	Units and Abbreviations	<u>Y</u>	
61.04	Address	<u>Y</u>	
61.05	Prohibited Activities	<u>Y</u>	
61.06	Determination of Construction or Modification	<u>Y</u>	
61.07	Application for Approval of Construction or Modification	<u>Y</u>	
61.08	Approval of construction or modification	<u>Y</u>	
61.09	Notification of startup	<u>Y</u>	
61.10	Source reporting and waiver request	<u>Y</u>	
61.12	Compliance with Standards and Maintenance Requirements	<u>Y</u>	
61.13	Emission Tests and Waiver of Emission Tests	<u>Y</u>	
61.14	Monitoring Reports	<u>Y</u>	
61.15	Modification	<u>Y</u>	
61.18	Incorporation by reference	<u>Y</u>	
61.19	Circumvention	<u>Y</u>	
40 CFR 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for Treat to 6 (6BO) [61.342(e)] facility		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	<u>Y</u>	
61.340(c)	Applicability: Exempt Waste	<u>Y</u>	
61.340(d)	Applicability: Exemption from Subpart FF for emissions routed to a fuel gas system	<u>Y</u>	
61.341	Definitions	<u>Y</u>	
61.342	Standards: General	<u>Y</u>	
61.342(a)	Standards: Definition of total annual benzene (TAB) & requirements to calculate	<u>Y</u>	
61.342(a)(2)	Standards: TAB Calculation – Material Sold	<u>Y</u>	
61.342(a)(3)	Standards: TAB Calculation – Remediation Waste	<u>Y</u>	
61.342(a)(4)	Standards: TAB Calculation – Determination Location	<u>Y</u>	
61.342(b)	Standards: General; Facility with TAB > 10Mg/year compliance dates	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat aqueous waste (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6 ton/yr), as determined in 61.355(k).	Y	
61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Determine 61.342(e)(2) benzene quantity [TBO] per 61.355(k).	Y	
61.343(a)	Standards: Tanks	Y	
61.343(a)(1)	Standards: Tanks: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
61.343(a)(1)(i)(A)	Standards: Tanks: Fixed roof and openings: No detectable emissions	Y	
61.343(a)(1)(i)(B)	Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
61.343(d)	Standards: Tanks: Repairs	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers--Covers	Y	
61.345(a)(1)(i)	Standards: Containers— No detectable emissions	Y	
61.345(a)(1)(ii)	Standards: Containers--Openings closed and sealed except when in use	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.345(a)(2)	<u>Standards: Containers--Waste Transfer</u>	<u>Y</u>	
61.345(b)	<u>Standards: Containers--Quarterly visual inspection</u>	<u>Y</u>	
61.345(c)	<u>Standards: Containers--Repairs</u>	<u>Y</u>	
61.346	<u>Standards: Individual drain systems</u>	<u>Y</u>	
61.346(b)	<u>Standards: Alternate compliance for individual drain systems</u>	<u>Y</u>	
61.346(b)(3)	<u>Standards: Alternate compliance for individual drain systems; Unburied Sewer Design</u>	<u>Y</u>	
61.346(b)(4)(iv)	<u>Standards: Alternate compliance for individual drain systems; Unburied Sewer Quarterly Visual Inspection</u>	<u>Y</u>	
61.346(b)(5)	<u>Standards: Alternate compliance for individual drain systems; Unburied Sewer Repair</u>	<u>Y</u>	
61.350	<u>Standards: Delay of repair</u>	<u>Y</u>	
61.350(a)	<u>Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.</u>	<u>Y</u>	
61.350(b)	<u>Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown</u>	<u>Y</u>	
61.353	<u>Alternative means of emission limitation</u>	<u>Y</u>	
61.355	<u>Test Methods, Procedures, and Compliance Provisions</u>	<u>Y</u>	
61.355(a)	<u>Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)</u>	<u>Y</u>	
61.355(a)(1)	<u>Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes</u>	<u>Y</u>	
61.355(a)(1)(i)	<u>Test Methods, Procedures, and Compliance Provisions: Annual Waste Quantity Determination</u>	<u>Y</u>	
61.355(a)(1)(ii)	<u>Test Methods, Procedures, and Compliance Provisions: Annual Average Benzene Determination</u>	<u>Y</u>	
61.355(a)(1)(iii)	<u>Test Methods, Procedures, and Compliance Provisions: Annual Benzene Quantity Calculation</u>	<u>Y</u>	
61.355(a)(2)	<u>Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); TAB Calculation</u>	<u>Y</u>	
61.355(a)(3)	<u>Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).</u>	<u>Y</u>	
61.355(a)(6)	<u>Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); Turnaround Waste in TAB</u>	<u>Y</u>	
61.355(b)	<u>Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies</u>	<u>Y</u>	
61.355(b)(4)	<u>Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(b)(5)	<u>Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records</u>	Y	
61.355(b)(6)	<u>Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity</u>	Y	
61.355(b)(7)	<u>Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements</u>	Y	
61.355(c)	<u>Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration</u>	Y	
61.355(c)(1)	<u>Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration</u>	Y	
61.355(c)(1)(i)	<u>Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.</u>	Y	
61.355(c)(1)(i)(D)	<u>Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Process Unit Turnaround wastes</u>	Y	
61.355(c)(1)(ii)	<u>Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration</u>	Y	
61.355(c)(1)(iii)	<u>Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration</u>	Y	
61.355(c)(1)(iv)	<u>Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section</u>	Y	
61.355(c)(1)(v)	<u>Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases</u>	Y	
61.355(c)(2)	<u>Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste</u>	Y	
61.355(c)(3)	<u>Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Measurements of Benzene Concentration - procedures</u>		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(h)	<u>Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods</u>	<u>Y</u>	
61.355(k)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)</u>	<u>Y</u>	
61.355(k)(1)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams</u>	<u>Y</u>	
61.355(k)(2)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams</u>	<u>Y</u>	
61.355(k)(2)(i)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit</u>	<u>Y</u>	
61.355(k)(2)(ii)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility</u>	<u>Y</u>	
61.355(k)(2)(iii)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.</u>	<u>Y</u>	
61.355(k)(2)(iv)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)</u>	<u>Y</u>	
61.355(k)(2)(v)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)</u>	<u>Y</u>	
61.355(k)(3)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine benzene quantity in waste generated less than one time per year</u>	<u>Y</u>	
61.355(k)(5)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams</u>	<u>Y</u>	
61.355(k)(6)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method</u>	<u>Y</u>	
61.355(k)(7)	<u>Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting</u>	<u>Y</u>	
61.356	<u>Recordkeeping Requirements</u>	<u>Y</u>	
61.356(a)	<u>Recordkeeping requirements: Retention</u>	<u>Y</u>	
61.356(b)	<u>Recordkeeping requirements: Waste stream records</u>	<u>Y</u>	
61.356(b)(1)	<u>Recordkeeping requirements: Uncontrolled Waste Stream Records</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(b)(4)	Recordkeeping requirements: Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements: Process unit turnaround waste records	Y	
61.356(g)	Recordkeeping Requirements: Visual inspections per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: TAB determined in accordance with 61.355(a)	Y	
61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Waste stream table (identify as controlled or uncontrolled)	Y	
61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data	Y	
61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	
61.357(a)(3)(iv)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
61.357(a)(3)(v)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	
61.357(a)(3)(vi)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements	Y	
61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streams	Y	

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61.357(d)(5)(ii)	<u>Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streams</u>	<u>Y</u>	
61.357(d)(6)	<u>Reporting Requirements: Quarterly Inspection Verification Report</u>	<u>Y</u>	
61.357(d)(7)	<u>Reporting Requirements: Quarterly Report</u>	<u>Y</u>	
61.357(d)(8)	<u>Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected</u>	<u>Y</u>	
40 CFR 63 Subpart A	<u>NESHAPs for Source Categories - General Provisions (12/22/2008)</u>		
63.1	<u>Applicability</u>	<u>Y</u>	
63.2	<u>Definitions</u>	<u>Y</u>	
63.3	<u>Units and abbreviations</u>	<u>Y</u>	
63.4	<u>Prohibited activities and circumvention</u>	<u>Y</u>	
63.5	<u>Preconstruction review and notification requirements</u>	<u>Y</u>	
63.6	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
63.7	<u>Performance test requirements</u>	<u>Y</u>	
63.8	<u>Monitoring requirements</u>	<u>Y</u>	
63.9	<u>Notification requirements</u>	<u>Y</u>	
63.10	<u>Recordkeeping and reporting requirements</u>	<u>Y</u>	
63.12	<u>State Authority and Delegations</u>	<u>Y</u>	
63.13	<u>Addresses of EPA Regional Offices</u>	<u>Y</u>	
63.14	<u>Incorporation by Reference</u>	<u>Y</u>	
63.15	<u>Availability of Information and confidentiality</u>	<u>Y</u>	
63.16	<u>Performance Track Provisions</u>	<u>Y</u>	
40 CFR 63 Subpart B	<u>NESHAPs for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)</u>		
63.52	<u>Approved process for new and existing affected sources.</u>	<u>Y</u>	
63.52(a)	<u>Sources subject to section 112(j) as of the section 112(j) deadline</u>	<u>Y</u>	
63.52(a)(1)	<u>Submit an application for Title V permit revision</u>	<u>Y</u>	
63.52(e)	<u>Permit application review</u>	<u>Y</u>	
63.52(h)	<u>Enhanced monitoring</u>	<u>Y</u>	
63.52(h)(i)	<u>MACT emission limitations</u>	<u>Y</u>	
63.52(h)(i)(1)	<u>Compliance with all requirements applicable to affected sources, including compliance date for affected sources</u>	<u>Y</u>	
63.53	<u>Application content for case-by-case MACT determination</u>	<u>Y</u>	
63.53(a)	<u>Part 1 MACT application</u>	<u>Y</u>	
63.53(b)	<u>Part 2 MACT application</u>	<u>Y</u>	
40 CFR 63 Subpart G	<u>NESHAPs for Source Categories - SOCOMI Process Vents, Storage Vessels, Transfer Operations, and Wastewater (6/23/2003)</u> <u>Requirements for Storage Vessels Subject to 63 Subpart CC</u>		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)	<u>Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External floating roof</u>	<u>Y</u>	
63.120(b)(1)	<u>Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement</u>	<u>Y</u>	
63.120(b)(1)(i)	<u>Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement</u>	<u>Y</u>	
63.120(b)(1)(iii)	<u>Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap</u>	<u>Y</u>	
63.120(b)(1)(iv)	<u>Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service</u>	<u>Y</u>	
<u>63.120(b)(2)</u>	<u>Primary seal gap standards</u>	<u>Y</u>	
<u>63.120(b)(3)</u>	<u>Secondary seal gap standards</u>	<u>Y</u>	
<u>63.120(b)(4)</u>	<u>Seal gap measurement methods</u>	<u>Y</u>	
40 CFR 63 Subpart CC	<u>NESHAPs for Source Categories - Petroleum Refineries (06/23/2003)</u>		
63.640(a)	<u>Applicability applies to petroleum refining process units and related emission points</u>	<u>Y</u>	
63.640(c)	<u>Applicability and Determination of Affected Source – Includes all emission points listed in subpart</u>	<u>Y</u>	
63.640(d)	<u>Applicability and Determination of Affected Source – Exclusions</u>	<u>Y</u>	
63.640(e)	<u>Applicability and Determination of Affected Source – Storage Vessels</u>	<u>Y</u>	
63.640(f)	<u>Applicability and Determination of Affected Source – Miscellaneous Process Vents</u>	<u>Y</u>	
63.640(g)	<u>Applicability and Determination of Affected Source – Exempt Processes</u>	<u>Y</u>	
63.640(h)	<u>Applicability and Determination of Affected Source – Compliance dates</u>	<u>Y</u>	
63.640(i)	<u>Applicability and Determination of Affected Source – Additional petroleum refining process units at existing major source</u>	<u>Y</u>	
63.640(j)	<u>Applicability and Determination of Affected Source – Changes to existing petroleum refining process units</u>	<u>Y</u>	
63.640(k)	<u>Applicability and Determination of Affected Source – Additional requirements for new or changed process units if subject to requirements for new process units in 63.640(i) or (j)</u>	<u>Y</u>	
63.640(l)	<u>Applicability and Determination of Affected Source – Requirements for added Group 1 emission points (i.e. process vents, storage vessels, etc) not subject to requirements for new process units in 63.640(i) or (j)</u>	<u>Y</u>	
63.640(m)	<u>Applicability and Determination of Affected Source – Changes causing Group 2 emission points to become Group 1 points</u>	<u>Y</u>	

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63.640(q)	<u>Applicability and Determination of Affected Source 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.</u>	<u>Y</u>	
63.641	<u>Definitions</u>	<u>Y</u>	
63.642	<u>General Standards</u>	<u>Y</u>	
63.642(a)	<u>Apply for a part 70 or part 71 operating permit</u>	<u>Y</u>	
63.642(c)	<u>Table 6 of this subpart specifies the subpart A provisions that apply.</u>	<u>Y</u>	
63.642(d)	<u>Initial performance tests and compliance determinations shall be required only as specified in this subpart</u>	<u>Y</u>	
63.642(e)	<u>Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.</u>	<u>Y</u>	
63.642(f)	<u>All reports required by this subpart shall be sent to the Administrator</u>	<u>Y</u>	
63.642(i)	<u>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.</u>	<u>Y</u>	
63.642(k)	<u>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).</u>	<u>Y</u>	
63.647	<u>Wastewater Provisions</u>	<u>Y</u>	
63.647(a)	<u>Wastewater Provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF</u>	<u>Y</u>	
63.647(b)	<u>Wastewater Provisions; Definitions</u>	<u>Y</u>	
63.647(c)	<u>Wastewater Provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values</u>	<u>Y</u>	
63.654	<u>Reporting and Recordkeeping Requirements</u>	<u>Y</u>	
63.654(a)	<u>Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF</u>	<u>Y</u>	
63.654 (e)	<u>Reporting and Recordkeeping Requirements; Required Reports and Records</u>	<u>Y</u>	
63.654 (f)	<u>Reporting and Recordkeeping Requirements; Notification of Compliance Status Reports</u>	<u>Y</u>	
63.654 (g)	<u>Periodic Reporting and Recordkeeping Requirements; Periodic Reports</u>	<u>Y</u>	
63.654(h)	<u>Reporting and Recordkeeping Requirements; Other reports</u>	<u>Y</u>	
63.654(i)	<u>Reporting and Recordkeeping Requirements; Recordkeeping</u>	<u>Y</u>	
Appendix Table 1	<u>Hazardous Air Pollutants</u>	<u>Y</u>	
Appendix Table 6	<u>General Provisions Applicability to Subpart CC</u>	<u>Y</u>	
NESHAP Title 40	<u>National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)</u>	<u>N</u>	<u>By February 5, 2007 for</u>

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Part 63 Subpart EEEE			existing sources. Upon start-up for new sources.
63.2334 to 63.2342	Applicability		
63.2342(b)(2)	Existing Floating Roof Storage Tanks		After next degassing or cleaning or February 3, 2014. If degassing or cleaning w/13 years of February 3, 2004, then February 5, 2007
63.2350	General Compliance Requirements		
63.2352 to 63.2370	Testing and Initial Compliance Requirements		
63.2374 to 63.2378	Continuous Compliance Requirements		
63.2382 to 63.2394	Notifications, Reports, and Records		
63.2396 to 63.2406	Other Requirements and Information		
<u>40 CFR 63 Subpart GGGGG</u>	<u>NESHAPS for Source Categories - Site Remediation (11/29/2006)</u>		
<u>63.7880</u>	<u>Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations</u>	<u>Y</u>	
<u>63.7881</u>	<u>Applicability: Am I subject to this subpart?</u>	<u>Y</u>	
<u>63.7881(a)</u>	<u>Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:</u>	<u>Y</u>	
<u>63.7881(a)(1)</u>	<u>(1) Site remediation cleans up a remediation material (63.7957 definition)</u>	<u>Y</u>	

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63.7881(a)(2)	(2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	(3) Facility with remediation activity is a major source of HAP	Y	
63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	(1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	(2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	(3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards	Y	
63.7884(a)	General Standards – comply with 63.7885 though 63.7955 as they apply to the affected sources	Y	

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63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	
63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m3/min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m3/min at standard conditions and the total HAP concentration is < 20 ppmw	Y	
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1: Control HAP emissions for tanks	Y	
63.7886(b)(1)(ii)	Option 1: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	

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63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	
63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks used for waste stabilization process, use Tank Level 2 controls	Y	
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	
63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	
63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	
63.7898(a)	Comply with applicable requirement in 63.7895	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	
63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	
63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m3. Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers <= 0.46 m3; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m3; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m3; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m3 require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	
63.7900(b)(3)(ii)	Containers > 0.46 m3 require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 013 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m3: Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m3 that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	
63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	
63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63.7927	Y	
63.7903	Containers – Continuous Compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	
63.7910	Separators – Emission limits and work practice standards	Y	
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	Separator controls – Option 2: Fixed roof vented to control device	Y	

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63.7910(b)(3)	<u>Separator controls – Option 3: Pressurized separator</u>	<u>Y</u>	
63.7910(c)	<u>Separators – Alternatives may be approved</u>	<u>Y</u>	
63.7911	<u>Separators – Initial Compliance</u>	<u>Y</u>	
63.7911(a)	<u>Separators – Initial compliance per 63.7910</u>	<u>Y</u>	
63.7911(b)	<u>Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:</u>	<u>Y</u>	
63.7911(b)(1)	<u>Records documenting design and installation of roof and closure devices</u>	<u>Y</u>	
63.7911(b)(2)	<u>Operate floating roof and closure devices per 63.1043(c)</u>	<u>Y</u>	
63.7911(b)(3)	<u>Initial seal gap measurement performed and records available</u>	<u>Y</u>	
63.7911(b)(4)	<u>Initial visual inspection performed and records available</u>	<u>Y</u>	
63.7911(b)(5)	<u>Fixed roof portions meet requirements of 63.7901(c)</u>	<u>Y</u>	
63.7911(c)	<u>Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:</u>	<u>Y</u>	
63.7911(c)(1)	<u>Records documenting design and installation of roof and closure devices</u>	<u>Y</u>	
63.7911(c)(2)	<u>Operate fixed roof and closure devices per 63.1042(c)</u>	<u>Y</u>	
63.7911(c)(3)	<u>Initial visual inspection performed and records available</u>	<u>Y</u>	
63.7911(c)(4)	<u>Initial compliance demonstrated with emission limits and work practice standards</u>	<u>Y</u>	
63.7911(d)	<u>Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:</u>	<u>Y</u>	
63.7911(d)(1)	<u>Records documenting design and installation of pressurized separator</u>	<u>Y</u>	
63.7911(d)(2)	<u>Operate pressurized separator per 63.1045(b)(3)</u>	<u>Y</u>	
63.7912	<u>Separators – Inspection and monitoring requirements</u>	<u>Y</u>	
63.7912(a)	<u>Separators – Inspection and monitoring requirements – Floating roof</u>	<u>Y</u>	
63.7912(a)(1)	<u>Annual seal gap measurement</u>	<u>Y</u>	
63.7912(a)(2)	<u>Annual visual inspection</u>	<u>Y</u>	
63.7912(b)	<u>Separators – Inspection and monitoring requirements – Cover vented to control device</u>	<u>Y</u>	
63.7912(b)(1)	<u>Visual inspection of cover and closure device</u>	<u>Y</u>	
63.7912(b)(2)	<u>Closed vent system and control device monitoring and inspection</u>	<u>Y</u>	
63.7912(c)	<u>Separators – Inspection and monitoring requirements – Pressurized separator</u>	<u>Y</u>	
63.7913	<u>Separators – Continuous compliance</u>	<u>Y</u>	
63.7913(a)	<u>Separators – Continuous compliance requirements</u>	<u>Y</u>	
63.7913(b)	<u>Separators with floating roof – Continuous compliance</u>	<u>Y</u>	
63.7913(b)(1)	<u>Operate and maintain floating roof</u>	<u>Y</u>	
63.7913(b)(2)	<u>Annual seal gap measurements</u>	<u>Y</u>	
63.7913(b)(3)	<u>Annual visual inspections</u>	<u>Y</u>	
63.7913(b)(4)	<u>Repair defects</u>	<u>Y</u>	

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63.7913(b)(5)	<u>Recordkeeping</u>	<u>Y</u>	
63.7913(b)(6)	<u>Compliance documentation records</u>	<u>Y</u>	
63.7913(c)	<u>Separators with fixed roof vented to control device – Continuous compliance</u>	<u>Y</u>	
63.7913(c)(1)	<u>Operate and maintain fixed roof and closure device</u>	<u>Y</u>	
63.7913(c)(2)	<u>Annual visual inspections</u>	<u>Y</u>	
63.7913(c)(3)	<u>Repair defects</u>	<u>Y</u>	
63.7913(c)(4)	<u>Recordkeeping</u>	<u>Y</u>	
63.7913(c)(5)	<u>Compliance documentation records</u>	<u>Y</u>	
63.7913(d)	<u>Separators - pressurized</u>	<u>Y</u>	
63.7913(d)(1)	<u>Operating at all times as required</u>	<u>Y</u>	
63.7913(d)(2)	<u>Annual visual inspection</u>	<u>Y</u>	
63.7915	<u>Transfer system emission limitations and work practice standards</u>	<u>Y</u>	
63.7915(a)	<u>Transfer system - comply with requirements for specific system</u>	<u>Y</u>	
63.7915(c)	<u>Transfer system – requirements for systems other than individual drain systems</u>	<u>Y</u>	
63.7915(c)(2)	<u>Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)</u>	<u>Y</u>	
63.7916	<u>Transfer system – Initial Compliance</u>	<u>Y</u>	
63.7916(a)	<u>Transfer system – Initial Compliance - comply with requirements for specific system</u>	<u>Y</u>	
63.7916(d)	<u>Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)</u>	<u>Y</u>	
63.7916(d)(1)	<u>Certify installation of hard piped transfer system and have records</u>	<u>Y</u>	
63.7916(d)(2)	<u>Certify initial inspection of entire hard piped transfer system and have records</u>	<u>Y</u>	
63.7917	<u>Transfer Systems – Inspection and Monitoring Requirements</u>	<u>Y</u>	
63.7917(c)	<u>Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.</u>	<u>Y</u>	
63.7917(e)	<u>Transfer system – continuous hard piping – repair of defects</u>	<u>Y</u>	
63.7917(e)(1)	<u>First attempt at repairs</u>	<u>Y</u>	
63.7917(e)(2)	<u>Delay of repair</u>	<u>Y</u>	
63.7917(e)(3)	<u>Records – delay of repair</u>	<u>Y</u>	
63.7918	<u>Transfer system – Continuous Compliance</u>	<u>Y</u>	
63.7918(a)	<u>Transfer system – Continuous Compliance - comply with requirements for specific system</u>	<u>Y</u>	
63.7918(d)	<u>Transfer system – continuous hard piping – continuous compliance</u>	<u>Y</u>	
63.7918(d)(1)	<u>Operation and maintenance</u>	<u>Y</u>	
63.7918(d)(2)	<u>Annual inspection</u>	<u>Y</u>	
63.7918(d)(3)	<u>Repair of defects</u>	<u>Y</u>	
63.7918(d)(4)	<u>Records of compliance</u>	<u>Y</u>	

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63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O₂	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time >= 0.5 seconds and temperature >= 760C	Y	
63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	

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63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	
63.7926(c)(2)	Option 2: Document max emissions <= 20 ppmvd @ 3% O2 demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	

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 Source-specific Applicable Requirements
 FACILITY #B2759**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction \geq 95%	Y	
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions \leq 20 ppmvd @ 3% O₂	Y	

Table IV - A1A.2
Source-specific Applicable Requirements
FACILITY #B2759

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration – Comply with applicable methods for affected sources	Y	

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 Source-specific Applicable Requirements
 FACILITY #B2759**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests as initial compliance demonstration	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	
63.7941(e)	Initial Compliance Demonstration - Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration - CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration - Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration - Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration - Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration - Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration - Reporting requirements for initial compliance demonstration performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems - installation, operation, and maintenance requirements	Y	
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	
63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	

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 Source-specific Applicable Requirements
 FACILITY #B2759**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation , or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
40 CFR Part 98	Mandatory Greenhouse Gas Reporting		
Subpart A	General Provisions		
98.1	Purpose and scope	Y	
98.2	Who must report?	Y	
98.2(a)(1)(xi)	Petroleum refineries	Y	
98.2(a)(4)(ii)	Petroleum Product Suppliers	Y	
98.2(i)	Duration of reporting	Y	
98.3	What are the general monitoring, reporting, recordkeeping and verification requirements of this part?	Y	
98.3(a)	General	Y	
98.3(b)	Schedule	Y	
98.3(c)	Content of the annual report	Y	
98.3(d)	Special provisions for reporting year 2010	Y	
98.3(e)	Emission calculations	Y	
98.3(f)	Verification	Y	
98.3(g)	Recordkeeping	Y	
98.3(h)	Annual GHG report revisions	Y	
98.3(i)	Calibration accuracy requirements	Y	
98.4	Authorization and responsibilities of the designated representative	Y	
98.5	How is the report submitted?	Y	
98.8	What are the compliance and enforcement provisions of this part?	Y	
Subpart C	General Stationary Fuel Combustion Sources		
98.30	Definition of source category	Y	
98.31	Reporting threshold	Y	
98.32	GHGs to report	Y	
98.33	Calculating GHG emissions	Y	
98.34	Monitoring and QA/QC requirements	Y	
98.35	Procedures for estimating missing data	Y	
98.36	Data reporting requirements	Y	
98.37	Records that must be retained	Y	
98.38	Definitions	Y	
Subpart Y	Petroleum Refineries		
98.250	Definition of source category	Y	
98.251	Reporting threshold	Y	

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 Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
98.252	GHGs to report	Y	
98.253	Calculating GHG emissions	Y	
98.254	Monitoring and QA/QC requirements	Y	
98.255	Procedures for estimating missing data	Y	
98.256	Data reporting requirements	Y	
98.257	Records that must be retained	Y	
98.258	Definitions	Y	
Subpart MM	Suppliers of Petroleum Products		
98.390	Definition of source category	Y	
98.391	Reporting threshold	Y	
98.392	GHGs to report	Y	
98.393	Calculating GHG emissions	Y	
98.394	Monitoring and QA/QC requirements	Y	
98.395	Procedures for estimating missing data	Y	
98.396	Data reporting requirements	Y	
98.397	Records that must be retained	Y	
98.398	Definitions	Y	
CA Code of Regulations, Title 17, Subchapter 10, Article 2	Mandatory Greenhouse Gas Emissions Reporting		
§ 95101(b)(2)	Applicability	N	
Subarticle 1	General Requirements for the Mandatory Reporting of Greenhouse Gas Emissions		
§ 95102	Definitions	N	
§ 95103(a)	General Greenhouse Gas Reporting Requirements	N	
§ 95103(a)(1)	Report Content	N	
§ 95103(a)(2)	Stationary Sources	N	
§ 95103(b)	Reporting Schedule – Existing Facilities	N	
§ 95103(c)	Verification – Existing Facilities	N	
§ 95104	Greenhouse Gas Emissions Data Report	N	
§ 95104(a)	Emissions Data Report	N	
§ 95104(b)	Maintaining the GHG Inventory Program	N	
§ 95104(c)	Data Completeness	N	
§ 95104(d)	Revisions	N	
§ 95105	Document Retention and Record Keeping Requirements	N	
§ 95106	Confidentiality	N	
§ 95107	Enforcement	N	
§ 95108	Severability	N	
§ 95113	Data Requirements and Calculation Methods for Petroleum Refineries	N	
§ 95113(a)	Greenhouse Gas Emissions Data Report	N	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
§ 95113(b)	Calculation of Process Emissions	N	
§ 95113(c)	Calculation of Fugitive Emissions	N	
§ 95113(d)	Calculation of Emissions from Flares and other Control Devices	N	
§ 95114	Data Requirements and Calculation Methods for Hydrogen Plants	N	
§ 95114(a)	Greenhouse Gas Emissions Data Report	N	
§ 95114(b)	Calculation of CO2 Stationary Combustion and Process Emissions	N	
Subarticle 3	Calculation Methods Applicable To Multiple Types of Facilities		
§ 95125	Additional Calculation Methods	N	
Subarticle 4	Requirements for Verification of Greenhouse Gas Emissions Data Reports and Requirements Applicable to Emissions Data Verifiers		
§ 95130	Requirements for Verification of Emissions Data Reports	N	
BAAQMD Condition # 5379	Refinery Wide Permit Conditions		
Part 1	Access to crude lightering vessels (basis: cumulative increase)	Y	
Part 2	Voyage history (basis: cumulative increase, offsets, bubble)	Y	
Part 3	U.S. Army Corps of Engineers form 3925 (basis: cumulative increase, offsets, bubble)	Y	
Part 4	Controlled transfer quarterly verification (basis: cumulative increase, offsets, bubble)	Y	
Part 5	Emission factors (basis: cumulative increase, offsets, bubble)	Y	
Part 6	Maximum pressure, pressure excursions, pressure relief valve lifting (basis: cumulative increase, offsets)	Y	
Part 7	Vessel pressure continuous recording (cumulative increase, offsets, bubble)	Y	
Part 8	Lightering tank vessel leak testing requirement (basis: cumulative increase, offsets, bubble)	Y	
Part 9	Inert gas system requirement and use of controlled emission factors (basis: cumulative increase, offsets, bubble)	Y	
Part 10	Fugitive emission maintenance program (basis: cumulative increase, offsets, bubble)	Y	
Part 11	Fugitive emission survey requirements (basis: cumulative increase, offsets, bubble)	Y	
Part 12	Prohibition against venting of crude oil vapors to atmosphere (basis: cumulative increase, offsets, bubble)	Y	
Part 13	Emission cap adjustment concurrent with Reg. 8, Rule 46 effective date and cap reduction proration provision (basis: cumulative	Y	

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 Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>increase, offsets, bubble)</u>		
<u>BAAQMD</u> <u>Condition 8077</u>			
<u>Part B1</u>	<u>Definitions</u>	<u>Y</u>	
<u>Part B2</u>	<u>Emissions – see Table A of Appendix A (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B2A</u>	<u>Emissions Cap – annual limits (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B2B</u>	<u>Emissions Cap – monthly limits (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B2C</u>	<u>Emissions Cap – monthly compensatory emission limits (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B2D</u>	<u>Emissions Cap – total accumulated emissions in calendar year limit (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B2E</u>	<u>Emissions Cap – Exceedances of B2A and B2B (basis: cumulative increase, bubble, BACT)</u>	<u>Y</u>	
<u>Part B3</u>	<u>Emission Reductions when limits in B2 are exceeded (basis: cumulative increase, bubble)</u>	<u>Y</u>	
<u>Part B3A</u>	<u>Emission Reductions for exceedances of annual emission limits (B2A) (basis: cumulative increase, bubble)</u>	<u>Y</u>	
<u>Part B3B</u>	<u>Emission Reductions for exceedances of monthly maximum emission limits (B2B) (basis: cumulative increase, bubble)</u>	<u>Y</u>	
<u>Part B3C</u>	<u>Emission Reductions for exceedances of monthly compensatory emission limits (B2C) (basis: cumulative increase, bubble)</u>	<u>Y</u>	
<u>Part B3D</u>	<u>Emission Reductions for exceedances of B2D cumulative emissions limits (basis: cumulative increase, bubble)</u>	<u>Y</u>	
<u>Part B3E</u>	<u>Emission Reductions- Hydrocarbon offsets for NOx (basis: cumulative increase, bubble, offsets)</u>	<u>Y</u>	
<u>Part B3F</u>	<u>Emission Reductions - Requirements for offsets for required abatement equipment (basis: cumulative increase, bubble, offsets)</u>	<u>Y</u>	
<u>Part B4A</u>	<u>Monitoring and Source Testing (toxics, NSPS)</u>	<u>Y</u>	
<u>Part B4D</u>	<u>Monitoring and Source Testing (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Recordkeeping (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5A</u>	<u>Record Keeping and retention(basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5B</u>	<u>Monthly Reporting and Record Keeping (basis: cumulative increase, offsets)</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part B5C</u>	<u>Monthly Audits (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B8</u>	<u>Hydrocarbon Controls</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Appendix A</u>	<u>Refinery emission sources covered by Cap emission limitations</u>	<u>Y</u>	
<u>Appendix B</u>	<u>Data for determining emissions from marine activity</u>	<u>Y</u>	
<u>Appendix C</u>	<u>Procedures for determining emissions from refinery sources identified in Appendix A</u>	<u>Y</u>	
<u>Appendix D</u>	<u>Emission and fuel use monitoring instruments and procedures</u>	<u>Y</u>	
BAAQMD Condition # 10525			
Part 6	Daily POC Emission Limitation on Marine Transport and Transfer of MTBE, ETBE and TAME, and Ship Ballasting, Vessel Unloading, Ship and Tug Boat Engines (basis: cumulative increase, offsets, toxics)	Y	
Part 7	Record Keeping for Ship and Barge deliveries of MTBE, ETBE, and TAME and Monthly Emission Calculations for Inclusion with Totals from Condition ID # 4357, Part 2, Part 2 (basis: cumulative increase, offsets)	Y	
Part 8	Requirement for Pressure Relief Valves to Be Vented to Flare Gas Vapor Recovery System (basis: Regulation 8-28, BACT)	Y	
BAAQMD Condition # 19528	Refinery Wide Permit Conditions		
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
BAAQMD Condition # 22455	Refinery Wide Permit Conditions		

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Start-up condition (fugitive count) (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 2	Start-up condition (offsets) (basis: offsets)	Y	
Part 3	Fugitive emission limit for valves (basis: BACT, Regulation 8-28, toxics risk screen)	Y	
Part 4	Fugitive emission limit for flanges and connectors (basis: BACT, Regulation 8-28, toxics risk screen)	Y	
Part 5	Fugitive emission limit for pump seals (basis: BACT, Regulation 8-28, toxics risk screen)	Y	
Part 6	Fugitive emission limit for relief valves (basis: BACT, Regulation 8-28, toxics risk screen)	Y	
Part 7	Integration of fugitive components into facility fugitive equipment monitoring and repair program (basis: BACT, Regulation 8-18)	Y	
Part 8	S-55 Amoreo Wharf Terminal throughput limit of 70,080,000 barrels of crude oil per any consecutive 12-month period (basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 9	S-19, S-21, S-30, S-49, and S-50 Tanks shall not exceed a combined throughput of 70,080,000 barrels of crude oil per any consecutive 12-month period. (basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 10	Transfer limitations (basis: cumulative increase)	Y	
Part 11	Shipping limitations (basis: cumulative increase)	Y	
Part 12	Recordkeeping (basis: cumulative increase, recordkeeping, Regulation 1-441)	Y	

SECTION B PROCESS UNITS

Table IV – ~~K~~ B.1
Source-specific Applicable Requirements
S802–FCCU: FLUID CATALYTIC CRACKER
ABATED BY S901 CO BOILER
ABATED BY A30 ESP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)5/02/01	Y	
1-501	Sampling Facilities	Y	
1-520	Continuous Emission Monitoring	Y	
1- 520.5	SO2 and opacity monitors at catalyst regenerators of FCC units ²³	Y	
<u>1- 520.8</u>	<u>Monitors pursuant to Regulations 10, 12 and 2-1-403⁴</u>	<u>Y</u>	
1-521	Monitoring may be required by APCO	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y <u>N</u>	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	Y <u>N</u>	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
<u>1-602</u>	<u>Area and Continuous Monitoring Requirements</u>	<u>N</u>	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (11/10/8206/28/1999)		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
1-522.7	Excesses	Y	

² Emission limits for opacity apply to S802 but are monitored at S901.

³ Emission limits for SO2 apply to S802 but are monitored at S901.

⁴ Monitors are required by Regulation 10 (NSPS J) for opacity and SO2 emissions limits that apply to S802 but are monitored at S901.

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ABATED BY A30 ESP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90)(<u>12/05/2007</u>)		
6-1-301	Ringelmann Number 1 Limitation	Y N	
6-1-302	Opacity Limit (where opacity monitor is required by the District)	Y N	
6-1-304	Tube Cleaning	Y N	
6-1-305	Visible Particles	Y N	
6-1-310	Particulate Weight Limitation	Y N	
6-1-311	General Operations (process weight rate limitation)⁵	Y N	
6-1-401	Appearance of Emissions	Y N	
6-1-501	Sampling Facilities and Instruments Required (where opacity monitor is required by the District)	Y N	
6-1-502	Data, Records and Reporting (where opacity monitor is required by the District)	Y N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-302</u>	<u>Opacity Limit (where opacity monitor is required by the District)</u>	<u>Y</u>	
6-304	Tube Cleaning	Y	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-311	General Operations (process weight rate limitation)	Y	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-501</u>	<u>Sampling Facilities and Instruments Required (where opacity monitor is required by the District)</u>	<u>Y</u>	
<u>6-502</u>	<u>Data, Records and Reporting (where opacity monitor is required by the District)</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)		

⁵ Emission limits for particulate matter apply to S802 but are monitored at S901

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-310.1	Emission Limitation for Fluid Catalytic Cracking Unit emission limitation	Y	
9-1-310.3	Emission Limitation for Fluid Catalytic Cracking Units	<u>Y</u>	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y/N	
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 H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	N	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	<u>Y</u>	
9-1-603	Averaging Times	<u>Y</u>	
9-1-605	Emission Monitoring	<u>Y</u>	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (6/8/99)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries	Y [†]	
9-1-313.2	Sulfur Removal and Recovery System	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries (08/07/1991)	<u>Y</u>	
40 CFR Part 60 Subpart A	New Source Performance Standards—General Provisions (7/1/2000)	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	

[†]-This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved the District's revision of the regulation.

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.19	General notification and reporting requirements	Y	
NSPS Title 40 Part 40 CFR 60 Subpart J	NSPS – Subpart J Standards of Performance for Petroleum Refineries (08/17/1989) (06/24/2008) Applicability defined by Condition 11433		
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	
60.102(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.	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 Dioxide	Y	
60.104(b)(2)	Limit on sulfur oxide emissions from catalyst regenerator without an add-on control device.	Y	
60.104(c)	<u>Determine compliance with §60.104(b)(2) daily on a 7-day rolling average basis per 60.106</u>	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)	Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere; span for instrument is 1000 ppm CO	Y	
60.105(c)	<u>Daily record required: Average coke burn-off rate (Mg (tons) per hour) and hours of operation for FCCU catalyst regenerator</u>	Y	
60.105(e)	<u>Periods of excess emissions for §60.7(c) reports</u>	Y	
60.105(e)(1)	<u>Periods of excess emissions: Opacity</u>	Y	
60.105(e)(2)	<u>Periods of excess emissions: Carbon monoxide</u>	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	For §60.8 performance tests, use 40 CFR 60 Appendix A reference methods except as specified in §60.8	Y	
60.106(b)	Methods to determine compliance with PM standards in §60.102(a)	Y	
60.106(b)(1)	Methods to determine compliance with PM standards in §60.102(a): equations	Y	
60.106(b)(2)	Methods to determine compliance with PM standards in §60.102(a): Method 5B or 5F methods	Y	
60.106(b)(3)	Coke burn-off rate calculation	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.106(b)(4)	<u>Methods to determine opacity</u>	<u>Y</u>	
60.106(d)	<u>Methods to determine compliance with CO standard in §60.103(a)</u>	<u>Y</u>	
60.106(g)	<u>Methods to determine compliance with SO2 standard in §60.104(b)</u>	<u>Y</u>	
60.106(i)	Calculation procedures for determining compliance with §60.104(b)(2)	Y	
60.106(i)(12)	An owner or operator may, upon approval by the Administrator, use an alternative method for determining compliance with §60.104(b)(2)	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(b)(2)	Records if subject to §60.104(b)(2)	Y	
60.107(b)(4)	Records for each 7-day rolling average compliance determination	Y	
60.107(c)	<u>Report required if subject to §60.104(b).</u>	<u>Y</u>	
60.107(c)(1)	<u>Report required if subject to §60.104(b). Information required in report:</u>	<u>Y</u>	
60.107(c)(1)(ii)	<u>Report required if subject to §60.104(b). Information required in report if complying with 60.104(b)(2) – Identify all 7 day periods during which average SO2 exceeded limit. Information to be included in reports</u>	Y	
60.107(c)(3)	<u>Report required if subject to §60.104(b). Information required in report if complying with 60.104(b)(2) – Data required for each 7 day period during which an exceedance occurred. Information to be included in reports</u>	Y	
60.107(d)	<u>Report required if subject to §60.104(b). Information required in report: signed certification explaining periods when data not available</u>	<u>Y</u>	
60.107(e f)	Submit <u>required reports</u> semiannually for each six-month period, a report postmarked by the 30th day following the end of each six-month period.	Y	
60.107(f) <u>g</u>	Submit signed statement certifying accuracy and completeness of information contained in the report.	Y	
NESHAPS Title-40 Part 40 CFR 63 Subpart UUU	<u>National Emission Standards for Hazardous Air Pollutants for NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/11/2002/20/2006)</u>		
63.1560	<u>Applicability and Designation of Affected Facility</u>	<u>Y</u>	
63.1561(a)(1)	<u>Applicable to petroleum refineries located at a major source of HAP emissions</u>	<u>Y</u>	
63.1561(a)(2)	<u>Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs</u>	<u>Y</u>	
63.1562	<u>What parts of my plant are covered by this subpart?</u>	<u>Y</u>	
63.1562(a)	<u>New, reconstructed, or existing affected source at a petroleum refinery</u>	<u>Y</u>	
63.1562(b)(1)	<u>Affected source: Process vent on FCCU catalyst regenerator</u>	<u>Y</u>	
63.1562(e)	<u>Existing affected source</u>	<u>Y</u>	
63.1564	Requirements for HAP Emissions from Catalytic Cracking Units	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1564(a)	Emission Limitations and Work Practice Standards	Y	
63.1564(a)(1)	Emission limitation requirements for Catalytic Cracking Units subject to NSPS 60.102 for PM: Meet Meet the emission limitations for NSPS units. (Table 1, Item 1)	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1564(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1564(b)(1)	Install Continuous Opacity Monitoring System (COMS) to measure and record the opacity of emissions from each catalyst regenerator vent. (Table Table 3, Item 1)	Y	
63.1564(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1564(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1564(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1564(c)(1)	For PM emission limit, determine and record daily average coke burn-off rate and hours of operation for catalyst regenerator; use process data to determine the volumetric flow rate; and maintain PM emission rate below 1.0 lb/1,000 lbs of coke burn-off. For site-specific opacity limit collect hourly average continuous opacity monitoring system data and maintain each 6-minute average per 1-hour period below the site-specific limit. (Table 6, Item 1)	Y	
63.1565	Requirements for Organic HAP Emissions from Catalytic Cracking Units	Y	
63.1565(a)	Emission Limitations and Work Practice Standards	Y	
63.1565(a)(1)	Emission limitation requirements for Catalytic Cracking Units subject to NSPS for CO in 60.103: Meet emission limitations for NSPS units.	Y	
63.1565(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan.	Y	
63.1565(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1565(b)(1)	Install Continuous Emissions Monitoring System (CEMS) to measure and record the CO emissions concentration (ppmvd) from each catalyst regenerator vent. (Table 10, Item 1)	Y	
63.1565(b)(4)	Initial Compliance Demonstration with emission limitation. (Table 12, Item 1)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1565(b)(5)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1565(b)(6)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1565(c)	Continuous Compliance Demonstration with emission limitation and work practice standards		
63.1565(c)(1)	Demonstrate Continuous Compliance with emission limitation by collecting hourly average CO data, maintain hourly average CO concentration at or below 500 ppmvd. (Table 13, Item 1)	Y	
63.1565(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly. (Table 39, Option 1)	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Operate in compliance with the opacity limits at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(h)(1).	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(e)	Operate in accordance with SSMP during periods of startup, shutdown, and malfunction	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(b)	Monitoring installation, operation, and maintenance requirements for continuous opacity monitoring systems.	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(a)(2)	Alternative to calculate regenerator exhaust rate based on air flow rate to the regenerator, and CO/CO ₂ , and O ₂ in exhaust flow	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574	Notification Requirements	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. Submit changes for review and approval. Comply with approved OMMP until change approved.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: semiannual compliance report (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEM or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems and continuous opacity monitoring systems	Y	
63.1576(c)	Records required by for visible emission observations (63.6(h))	Y	
63.1576(d)	Records required by Tables 6, 7, 13, and 14 of Subpart UUU for catalytic cracking units and Table 39 for bypass lines	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
<u>40 CFR 64</u>	<u>Compliance Assurance Monitoring (10/22/1997)</u>		
<u>64.2(a)</u>	<u>General Applicability</u>	<u>Y</u>	
<u>64.2(a)(1)</u>	<u>General Applicability: Subject to an emission limitation or standard for regulated air pollutant</u>	<u>Y</u>	
<u>64.2(a)(2)</u>	<u>General Applicability: Uses a control device to achieve compliance with emission limitation</u>	<u>Y</u>	
<u>64.2(a)(3)</u>	<u>General Applicability: Has pre-control device potential to emit > major source threshold</u>	<u>Y</u>	
<u>64.2(b)(1)</u>	<u>Exemptions for emission limitations or standards</u>	<u>Y</u>	
<u>64.2(b)(1)(i)</u>	<u>Exemptions for emission limitations or standards: Emission limitation proposed after 11/15/1990</u>	<u>Y</u>	
<u>64.2(b)(1)(vi)</u>	<u>Exemptions for emission limitations or standards: Title V permit specifies a continuous compliance determination method _____ for emission limitation</u>	<u>Y</u>	
<u>BAAQMD Condition 8077</u>			
<u>Part B2</u>	<u>Emissions – see Table A of Appendix A</u>	<u>Y</u>	
<u>Part B2A</u>	<u>Emissions Cap – annual limits</u>	<u>Y</u>	
<u>Part B2B</u>	<u>Emissions Cap – monthly limits</u>	<u>Y</u>	
<u>Part B2C</u>	<u>Emissions Cap – monthly compensatory emission limits</u>	<u>Y</u>	
<u>Part B2D</u>	<u>Emissions Cap – total accumulated emissions in calendar year limit</u>		
<u>Part B5</u>	<u>Reporting and Recordkeeping</u>	<u>Y</u>	
<u>Appendix A</u>	<u>Refinery emission sources covered by Cap emission limitations</u>	<u>Y</u>	
<u>Appendix A.1</u>	<u>Emission points covered by the hydrocarbon limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.2</u>	<u>Emission points covered by the nitrogen oxides limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.3</u>	<u>Emission points covered by the sulfur oxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.4</u>	<u>Emission points covered by the carbon monoxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.5</u>	<u>Emission points covered by the particulate limits of Part B2</u>	<u>Y</u>	
<u>Appendix C</u>	<u>Procedures for determining emissions from refinery sources identified in Appendix A</u>	<u>Y</u>	

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Appendix C.2(b)	SO2 Emissions – FCCU-COB	<u>Y</u>	
Appendix C.3(b)	NOx Emissions – FCCU-COB	<u>Y</u>	
Appendix C.4(b)	Particulate Emissions – FCCU COB. Includes source test requirements	<u>Y</u>	
Appendix C.5(b)	Nonmethane Hydrocarbon Emissions – FCCU COB	<u>Y</u>	
Appendix C.6(b)	Carbon Monoxide Emissions – FCCU-COB	<u>Y</u>	
Appendix D	Emission and fuel use monitoring instruments and procedures	<u>Y</u>	
Appendix D.SO2	In-stack SO2 concentration monitor and stack gas flow rate monitors on S901	<u>Y</u>	
Appendix D.NOx	In stack NOx concentration monitor and stack gas flow rate monitor on S901	<u>Y</u>	
Appendix D.100 PSI Fuel Gas Metering System	Flow rate monitor for 100# refinery fuel gas supply to S901	<u>Y</u>	
BAAQMD Condition-# 11433			
Part 1	Requirement for abatement by A-30 Electrostatic Precipitator (basis: cumulative increase, BACT, offsets)	Y	
Part 2	Annual emission limits by pollutant (basis: cumulative increase, BACT, offsets)	Y	
Part 2A	NOx, CO, and SO2 CEM requirement (basis: cumulative increase, BACT)	Y	
Part 2B	Continuous Opacity Monitor (basis: Reg. 6-302)	Y	
Part 3	Requirement for new pressure relief valves to be vented to flare vapor recovery system (basis: cumulative increase, BACT, offsets)	Y	
Part 4	Requirement to monitor and calculate emissions (basis: cumulative increase, BACT, offsets)	Y	
Part 5	Procedure for development of new emission factors (basis: cumulative increase, offsets)	Y	
Part 6	Record keeping (basis: cumulative increase, offsets, BACT)	Y	
Part 7	Consent decree NOx Emission Limits (basis: Consent Decree §§ 35)	Y	
Part 8	Consent decree SO2 Emission Limits (basis: Consent Decree §§ 82)	Y	

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Source-specific Applicable Requirements
S802–FCCU: FLUID CATALYTIC CRACKER
ABATED BY S901 CO BOILER
ABATED BY A30 ESP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9	<u>Consent decree CO Emission Limits (basis: Consent Decree §§ 94)</u> Error! Bookmark not defined.	Y	
Part 10	<u>Consent decree Particulate Emission Limits (basis: Consent Decree §§ 95)</u>	Y	
Part 11	<u>Consent Decree NSPS Applicability: SO2, CO, opacity, particulate matter. NSPS Limits not applicable during startup, shutdown or malfunction (basis: Consent Decree §§ 99, 102, 107A, 110)</u>	Y	
Part 12	<u>Consent Decree short-term NOx and SO2 limits</u> Limits not applicable during hydrotreater outage, including startup, shutdown or malfunction (basis: Consent Decree §§ 85)	Y	
Part 13	<u>Consent Decree NOx monitoring requirements (basis: Consent Decree §§ 61, 62)</u>	<u>Y</u>	
Part 14	<u>Consent Decree SO2 monitoring requirements (basis: Consent Decree §§ 90, 91)</u>	<u>Y</u>	
Part 15	<u>Consent Decree exemptions from NSPS notification requirements (basis: Consent Decree §§ 100, 108, 120)</u>	<u>Y</u>	
Part 16	<u>Consent Decree CEMS accuracy test allowances (basis: Consent Decree §§ 62, 90, 101, 109)</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>Y</u>	
BAAQMD Condition 22150			
Part 1	Continuous ESP opacity monitoring for assurance of compliance with Regulations 6-310. (basis: Regulation 6-310, 2-6-503)	Y	
Part 2	Opacity limit; Each time the opacity exceeds the established range of compliance, the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The source test shall be within 45 days of the detection of the exceedance.(basis: Regulation 2-6-503)	Y	
Part 3	<u>Exceedances of parametric compliance range are deviations and shall be reported as deviations in all Title V reports. (basis: Regulation 2-6-503)</u>	<u>N</u>	

Table IV – NB.2
Source-specific Applicable Requirements
S815–No. 1 FEED PREP., S816-NO. 2 FEED PREP.,
S817-NO. 3 CRUDE UNIT, S1001-NO. 50 CRUDE UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 18	See Tables IV X and IV J for fugitives requirements	N	
BAAQMD Condition #8548			
Part 1	Requirement for abatement by A-12 (basis: Reg. 1-301, toxics)	N	
Part 2	Fugitive component inspection and maintenance (basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)	N	
Part 3	Pressure relief valve requirement (basis: BACT, cumulative increase, offsets)	N	
BAAQMD Condition # 4357			
Part 3Aii	Reduced limit on crude throughput applicable when criteria in condition 4357 part 2 is met. (basis: cumulative increase, bubble, offsets)	N	
BAAQMD Condition # 8077			
Part B3Aii	Reduced limit on crude throughput applicable when criteria in condition 8077 part B2 are not met. (basis: cumulative increase, bubble, offsets)	Y	
BAAQMD Condition # 10696	<u>Applies to S815, S816, and S817 only</u>		
Part 1	Requirement for VOC abatement (basis: Regulation: 1-301, toxics)	Y	
Part 2	Inspection and maintenance program for fugitives, fugitive emission limits (basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)	N	
Part 3	Hydrocarbon pressure relieve valves to be vented to flare vapor recovery system (basis: BACT, cumulative increase, offsets)	N	
Part 4	Fugitive component count and emission offsetting requirements (basis: cumulative increase, BACT)	N	

Table IV – NB.2
Source-specific Applicable Requirements
S815–No. 1 FEED PREP., S816–No. 2 FEED PREP.,
S817–No. 3 CRUDE UNIT, S1001–No. 50 CRUDE UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition-# 17837 (applies to S817)	<u>Applies to S817 only</u>		
Part 1	Calendar day throughput limit (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 2	<u>Rolling</u> 365 day throughput limit (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 3	Recordkeeping (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	N	

Table IV – B.3
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850–No. 3 HDS UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 8077			
Part B6B (S850)	<u>Throughput Limit – S850 <= 70,000 bbl/stream day</u>	Y	
Part B6B (S848)	<u>Throughput Limit – S848 <= 55,000 bbl/stream day</u>	N	

Table IV – ~~AJB.4~~
Source-specific Applicable Requirements
S1002-No. 1 HDS UNIT
S1003-No. 2 HDS UNIT
S1006-No. 1 HDA UNIT
S1105-No. 4 HDS UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Condition # 8350	<u>Section A – Applies to S1002</u> <u>Section B – Applies to S1003</u> <u>Section C – Applies to S1006</u>		
Part A1	<u>S1002</u> Feed Throughput Limit (basis: cumulative increase)	Y	
Part A2	Fugitive Component Count (basis: cumulative increase)	Y	
Part A3	Pressure Relief Valves (basis: cumulative increase, BACT)	Y	
Part A4	<u>S1002</u> Recordkeeping (basis: cumulative increase)	Y	
Part B1	S1003 Feed Throughput Limit (basis: cumulative increase)	Y	
Part B4	S1003 Recordkeeping (basis: cumulative increase)	Y	
Part C1	S1006 Feed Throughput Limit (basis: cumulative increase)	Y	
Part C4	S1006 Recordkeeping (basis: cumulative increase)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
<u>BAAQMD Condition 19199</u>	<u>Applies to S1105 only</u>		
<u>Part G0</u>	<u>S1105 Hydrocarbon material/feed material throughput limit (basis: Regulation 2-2-419)</u>	<u>Y</u>	
Part G1	S1105 Final Fugitive Count (basis: cumulative increase, offsets, toxics)	Y	
Part G2	S1105 additional offsets (Basis: offsets)	Y	
Part G3	S1105 flanges BACT compliant and emissions < 100 ppm (basis: BACT, Regulation 8-18)	Y	
Part G4	S1105 valves BACT compliant and emissions < 100 ppm (basis: BACT, Regulation 8-18)	Y	

Table IV – AJB.4
Source-specific Applicable Requirements
S1002-No. 1 HDS UNIT
S1003-No. 2 HDS UNIT
S1006-No. 1 HDA UNIT
S1105-No. 4 HDS UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
Part G5	S1105 pumps BACT compliant and emissions < 100 ppm (basis: BACT, Regulation 8-18)	Y	
Part G6	S1105 sample systems are closed loop (basis: BACT, Regulation 8-18)	Y	
Part G7	S1105 process drains hve P trap (basis: BACT)	Y	
Part G8	S1105 pressure relief devices are vented to fuel gas system or to an abatement device with a capture destruction efficiency > 98% (basis: BACT, Regulation 8-28)	Y	
<u>Part G9</u>	<u>S1105 Recordkeeping (basis: cumulative increase)</u>	<u>Y</u>	

Table IV – AJB.5
Source-specific Applicable Requirements
S1004-No. 2 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8, Rule 10	Organic Compounds—Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing	Y	
8-10-301.1	—recovery to the fuel gas system	Y	
8-10-301.2	—combustion at a firebox or incinerator	Y	
8-10-301.3	—combustion at a flare	Y	
8-10-301.4	—containment such that emissions to atmosphere do not occur	Y	
8-10-401	Recordkeeping	Y	
8-10-401.1	—date of depressurization event	Y	
8-10-401.2	—approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	—approximate quantity of POC emissions to atmosphere	Y	
NESHAPS Title 40 Part 40 CFR 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/2002/04/20/2006)	Y	
<u>63.1560</u>	<u>Applicability and Designation of Affected Facilities</u>	<u>Y</u>	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	What parts of my plant are covered by this subpart?	Y	
<u>63.1562(a)</u>	<u>New, reconstructed, or existing affected source at a petroleum refinery</u>	<u>Y</u>	
<u>63.1562(b)</u>	<u>Affected sources include:</u>	<u>Y</u>	
63.1562(b)(2)	Affected source: Process vents or group of vents on catalytic reforming units associated with catalyst regeneration, including vents used during unit depressurization, purging, coke, and catalyst rejuvenation	Y	
63.1562(e)	Existing affected source	Y	
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Regeneration vent used during unit depressuring and purging, when vent is routed to fuel gas system (note: all S1004 regeneration vent emissions are sent to the refinery fuel gas system)	Y	
63.1566	Requirements for Organic HAP Emissions from Catalytic Reforming Units	Y	
63.1566(a)(1)	Meet Emission Limitation in Table 15 that applies (note: None apply -- all S1004 regeneration vent emissions are sent to the refinery fuel gas system)	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(a)(1)(i)	Emission Limitation Requirements for Catalytic Reformer Units – (Table 15 Option 1) Vent emissions to a flare that meets the requirements for control devices in §63.11(b). Visible emissions from a flare must not exceed a total of 5 minutes during any 2-hour operating period.	Y	
63.1566(a)(2)	Operating Parameters – The flare pilot light must be present (Table 16 Option 1)	Y	
63.1566(a)(3)	Limits apply during initial catalyst depressuring and catalyst purging operations. Limits do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents or to the control systems used for these vents.	Y	
63.1566(a)(4)	Limits do not apply when the reactor vent pressure is 5 pounds per square inch gauge (psig) or less	Y	
63.1566(a)(5)	Prepare an OMMP per 63.1574(f) and operate at all times according to the OMMP	Y	
63.1566(b)	Initial Compliance Demonstration	Y	
63.1566(b)(1)	Initial Compliance – Install a monitoring device (i.e. thermocouple, an ultraviolet beam sensor, or infrared sensor) to ensure pilot light is present on flare (Table 17 Option 1)	Y	
63.1566(b)(2)	Initial Compliance – Conduct a performance test by performing a Method 22 visible emissions test and calculate the net heating value of the gas being combusted (Table 18 Option 1)	Y	
63.1566(b)(3)	Initial Compliance – Demonstrate by maintaining the flare pilot light at all times and operating the flare at all times emissions are vented to it during initial catalyst depressuring and purging operation (Table 16, Option 1)	Y	
63.1566(b)(5)	Initial Compliance – TOC performance test is not required if:	Y	
63.1566(b)(5)(i)	– Emissions are vented to flare (Table 15, Option 1)	Y	
63.1566(b)(6)	Initial Compliance – Demonstrate by using Method 22 observation to ensure visible emissions do not exceed a total of 5 minutes over the 2-hour observation period of the performance test. (Table 19 Option 1)	Y	
63.1566(b)(7)	Submit OMMP as part of Notice of Compliance Status	Y	
63.1566(b)(8)	Submit Notice of Compliance Status per 63.1574	Y	
63.1566(c)	Demonstrate Continuous Compliance	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(c)(1)	Demonstrate Continuous Compliance by installing a thermocouple, an ultraviolet beam sensor, or infrared sensor to monitor the pilot light presence (Table 15 Option 1)	Y	
63.1566(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operations, Maintenance, and Monitoring Plan	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission limitation options during coke burn-off and catalyst rejuvenation	Y	
63.1567(a)(1)(i)	Emission Limitations during coke burn-off and catalyst rejuvenation for existing semi-regenerative catalytic reforming unit – HCl concentration limit: Reduce uncontrolled HCl emissions to a concentration of 30 ppmvd corrected to 3%O ₂ (Table 22 <u>Item 1</u> , Option <u>2</u>)	Y	
63.1567(a)(2)	Operating limits for internal scrubbing system or no control device meeting outlet HCl concentration limit: Daily average HCl concentration in catalyst regenerator exhaust gas must not exceed limit established during performance test (Table 23, Item 2)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1567(b)(1)	Demonstrate initial compliance for internal scrubbing system or no control device meeting outlet HCl concentration limit: Install and operate a colormetric tube sampling system (complying with Table 41, Item 2) to measure HCl concentration in the catalyst regenerator exhaust gas during coke burn-off and catalyst rejuvenation. (Table 24, Item 2)	Y	
63.1567(b)(2)	Demonstrate initial compliance with performance test for concentration standard: measure HCl concentration at the outlet of the scrubber and comply with the requirements for semi-regenerative units (Table 25, Item 1)	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(b)(3)	Demonstrate initial compliance with performance test for concentration standard: Establish operating limits for internal scrubbing system or no control device meeting HCl outlet concentration limit: measure and record HCl concentration in catalyst regenerator exhaust gas using colormetric tube sampling system at least three times during each test run. Determine and record average HCl concentration for each test run. Determine and record average HCl concentration for the overall source test. Determine and record the operating limit for HCl concentration using Equation 4 of 63.1567. (Table 25, Item 3)	Y	
63.1567(b)(4)	Demonstrate initial compliance with emission limitations: use equations to reduce performance test data	Y	
63.1567(b)(4)(i)	Demonstrate initial compliance with emission limitations: use equations to reduce performance test data – correct measured HCl concentration for O2 content	Y	
<u>63.1567(b)(4)(i)</u>	<u>Demonstrate initial compliance with the HCl concentration operating limit using colormetric tube sampling system and Equation 4</u>	<u>Y</u>	
63.1567(b)(5)	Demonstrate initial compliance with emission limitation if average HCl emissions during performance test using Method 26 are <= 30 ppmvd corrected to 3% O2. (Table 26, Option Item 1)	Y	
63.1567(b)(6)	Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(7)	Submit Notice of Initial Compliance Status containing results of initial compliance demonstration	Y	
63.1567(c)	Continuous compliance demonstration with emission limitations and work practice standards	Y	
63.1567(c)(1)	Demonstrate continuous compliance with emission limitation and operating limits: maintain HCl concentration <= 30 ppmvd corrected to 3% O2 (Table 27, Item 1) and measure and record the HCl concentration at least 4 times during a regeneration cycle or every 4 hours whichever is more frequent using colormetric tube sampling system. Calculate daily average HCl concentration and maintain below applicable operating limit (Table 28, Item 2)	Y	
63.1567(c)(2)	Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Comply with visible emissions limit at all times specified in 63.6(h)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(e)	Operate in accordance with SSMP during periods of startup, shutdown, and malfunction	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(4)	Performance tests not conducted during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1571(d)	Adjustment for measured values	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to Operating limits (optional)	Y	
63.1571(e)(1)	Procedures to change established operating limit for continuous parametric monitoring system (CPMS)	Y	
63.1571(e)(2)	Requirement to change established operating limit for CPMS if there are any changes in process or operating conditions that could affect control system performance	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring system (CPMS) requirements	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(c)(1)	Follow manufacturer's specifications to install, operate, and maintain continuous parameter monitoring systems	Y	
63.1572(c)(2)	CPMS must complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data	Y	
63.1572(c)(3)	Valid hourly data required at least 75% of process operating hours	Y	
63.1572(c)(4)	CPMS must determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	CPMS must record results of inspection, calibration, and validation check	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Do not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(i)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(c)	Maintain records of visible emissions observations per 63.6(h)	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU for catalytic reforming units	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart	Y	
BAAQMD Condition # 4357			
Part 1	Definitions	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 4D	Monitoring and Source Testing (basis: cumulative increase, offsets)	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-No. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 6A	Process Unit Design (basis: cumulative increase)	Y	
Part 6B	Process Unit Design	Y	
Part 8	Hydrocarbon Controls	Y	
Part 9	Sulfur Recovery Facilities	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
<u>BAAQMD Condition 8077</u>			
Part B1	Definitions	Y	
Part B2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part B3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part B4D	Monitoring and Source Testing (basis: cumulative increase, offsets)	Y	
Part B5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B6A	Process Unit Design (basis: cumulative increase)	Y	
Part B6B	Process Unit Design	Y	
Part B8	Hydrocarbon Controls	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	

**Table IV – ~~AJB.5~~
 Source-specific Applicable Requirements
 S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B13	<u>Severability (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
Part B14	<u>Environmental Management Plan (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	

**Table IV – ~~AIB.6~~
 Source-specific Applicable Requirements
 S1005-NO. 1 HYDROGEN PLANT, ~~S1038 BENZENE SATURATION UNIT, S1040 BUTADIENE PLANT~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations <u>(07/20/2005): Applies to S1005 No. 1 Hydrogen Plant CO2 Vents #1 and #2</u>		
<u>8-2-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
BAAQMD Condition # 22070	S-1005 No. 1 Hydrogen Plant (CO2 Vents)		
Part 1	Annual source test on S-1005 No. 1 Hydrogen Plant CO2 Vent #1 and CO2 Vent #2 to demonstrate compliance with Regulation 8-2-301. (Basis: Regulation 2-6-409.2)	Y	
BAAQMD Condition # 23258	S-1038 Benzene Saturation Unit		

Table IV – AIB.6
Source-specific Applicable Requirements

S1005-NO. 1 HYDROGEN PLANT, S1038 BENZENE SATURATION UNIT, S1040 BUTADIENE PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Throughput limit (basis: Cumulative Increase)	N	
Part 2	Comply with BAAQMD Regulation 8, Rule 18	N	
Part 3	POC emission limit (basis: Cumulative Increase)	N	
Part 4	Pressure Relief Valve requirements (basis: BAAQMD Regulation 8, Rule 28)	N	
Part 5	Recordkeeping Requirements (basis: Cumulative Increase)	N	
BAAQMD Condition-# 24321XXXXX			
Part 1	Throughput Limit (basis: Cumulative Increase)	Y	
Part 2	Recordkeeping Requirements (basis: Recordkeeping)	Y	

Table IV – AIB.7
Source-specific Applicable Requirements

S1005-NO. 1 HYDROGEN PLANT, S1038 BENZENE SATURATION UNIT, S1040 BUTADIENE PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations: S1005 No. 1 Hydrogen Plant CO2 Vents #1 and #2		
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	N	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
BAAQMD Condition-# 22070	S-1005 No. 1 Hydrogen Plant (CO2 Vents)		

Table IV – AIB.7
Source-specific Applicable Requirements
~~S1005-NO. 1 HYDROGEN PLANT, S1038 BENZENE SATURATION UNIT, S1040 BUTADIENE PLANT~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
Part 1	Annual source test on S-1005 No. 1 Hydrogen Plant CO2 Vent #1 and CO2 Vent #2 to demonstrate compliance with Regulation 8-2-301. (Basis: Regulation 2-6-409.2)	N	
BAAQMD Condition # 23258	S-1038 Benzene Saturation Unit		
Part 1	Throughput limit (basis: Cumulative Increase)	Y	
Part 2	Comply with BAAQMD Regulation 8, Rule 18	N	
Part 3	POC emission limit (basis: Cumulative Increase)	N	
Part 4	Pressure Relief Valve requirements (basis: BAAQMD Regulation 8, Rule 28)	N	
Part 5	Recordkeeping Requirements (basis: Cumulative Increase)	Y	

Table IV – AKB.8
Source-specific Applicable Requirements
S1007-HYDROCRACKER UNIT 2ND STAGE,
S1008-HYDROCRACKER UNIT 1ST STAGE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Condition # 1910			
Part 1	Prohibition Against Pressure Relief Valve Vent to Atmosphere (basis: cumulative increase, BACT)	N	
Part 2	Fugitive Component Technology Requirements (basis: cumulative increase)	N	
Part 3	Inspect HIR Compressor Leak Control shroud/clamp monthly (basis: Regulation 8-18-401.9)	N	
Part 4	Inspect HIR Compressor Leak Control shroud/clamp monthly (basis: Regulation 8-18-401.9)	N	

Table IV – AKB.8
Source-specific Applicable Requirements
S1007-HYDROCRACKER UNIT 2ND STAGE,
S1008-HYDROCRACKER UNIT 1ST STAGE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Condition # 8077			
Part C1	Throughput Limit for each of S1007 and S1008 (basis: cumulative increase)	Y	
Part C2	Record-keeping (basis: cumulative increase)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – ALB.9
Source-specific Applicable Requirements
S1009-ALKYLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 22693			
Part 1	Startup Condition: fugitive count (basis: cumulative increase, offsets)	Y	
Part 2	Startup Condition: offsets (basis: offsets)	Y	
Part 3	Emission limits for valves (basis: BACT, Regulation 8-18)	Y	
Part 4	Emission limits for flanges and connectors (basis: BACT, Regulation 8-18)	Y	
Part 5	Emission limits for pump seals (basis: BACT, Regulation 8-18)	Y	
Part 6	Emission limitations for relief valves (basis: BACT, Regulation 8-18)	Y	

**Table IV – ~~ALB.9~~
 Source-specific Applicable Requirements
 S1009-ALKYLATION UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
Part 7	Integration of fugitives into the fugitive equipment monitoring and repair program (basis: BACT, Regulation 8-18)	N	
Part 8	Pressure relief valves on the C-2 DIB column of S-1009 to be vented to V-104 at all times with gases vented to the Flare Header. Vented liquid shall be further processed at the refinery. (basis: Regulation 8-28-304.2)	N	
Part 9	After startup of V-104, the 10" tie in line shall be blinded. (basis: Regulation 8-28-304.2)	Y	

**Table IV – ~~SB.10~~
 Source-specific Applicable Requirements
 S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound—Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	N	
8-10-502	Concentration measurement using EPA Method 21	N	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compounds—Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing	N	
8-10-301.1	—recovery to the fuel gas system	N	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-301.2	—combustion at a firebox or incinerator	N	
8-10-301.3	—combustion at a flare	N	
8-10-301.4	—containment such that emissions to atmosphere do not occur	N	
8-10-401	Recordkeeping	N	
8-10-401.1	—date of depressurization event	N	
8-10-401.2	—approximate vessel hydrocarbon concentration when emissions to atmosphere begin	N	
8-10-401.3	—approximate quantity of POC emissions to atmosphere	N	
<u>The NESHAPS 40 CFR 63 Subpart UUU applicability requirements apply only to S-1020 No. 3 UOP Reformer.</u>			
NESHAPS Title 40 Part 40 CFR 63 Subpart UUU	<u>National Emission Standards for Hazardous Air Pollutants for NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/11/2002/20/2006)</u>		
<u>63.1560</u>	<u>Applicability and Designation of Affected Facilities</u>	<u>Y</u>	
<u>63.1561(a)(1)</u>	<u>Applicable to petroleum refineries located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.1561(a)(2)</u>	<u>Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs</u>	<u>Y</u>	
<u>63.1562</u>	<u>What parts of my plant are covered by this subpart?</u>	<u>Y</u>	
<u>63.1562(a)</u>	<u>Applies to new, reconstructed, or existing affected source at a petroleum refinery</u>	<u>Y</u>	
<u>63.1562(b)</u>	<u>Affected sources include:</u>	<u>Y</u>	
<u>63.1562(b)(2)</u>	<u>Affected source: Process vent or group of vents vents on catalytic reforming units associated with catalyst regeneration, including vents used during unit depressurization, purging, coke, and catalyst rejuvenation</u>	<u>Y</u>	
<u>63.1562(e)</u>	<u>Existing affected source</u>	<u>Y</u>	
<u>63.1562(f)</u>	<u>This subpart does not apply to:</u>	<u>Y</u>	
<u>63.1562(f)(5)</u>	<u>Regeneration vent used during unit depressuring and purging, when vent is routed to fuel gas system</u>	<u>Y</u>	
<u>63.1566</u>	<u>Requirements for Organic HAP Emissions from Catalytic Reforming Units</u>	<u>Y</u>	
<u>63.1566(a)(1)</u>	<u>Meet Emission Limitation in Table 15 that applies</u>	<u>Y</u>	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(a)(1)(i)	Emission Limitation Requirements for Catalytic Reformer Units – (Table 15 Option 1) Vent Organic HAP emissions to a flare that meets the requirements for control devices in §63.11(b). Visible emissions from a flare must not exceed a total of 5 minutes during any 2-hour operating period.	Y	
63.1566(a)(1)(ii)	Reduce uncontrolled emissions of total organic compounds (TOC) or nonmethane TOC from your process vent by 98 percent by weight using a control device or to a concentration of 20 ppmv (dry basis as hexane), corrected to 3 percent oxygen, whichever is less stringent. If you vent emissions to a boiler or process heater to comply with the percent reduction or concentration emission limitation, the vent stream must be introduced into the flame zone, or any other location that will achieve the percent reduction or concentration standard.	Y	
63.1566(a)(2)	Operating Parameters – The flare pilot light must be present (Table 16 Option 1)	Y	
63.1566(a)(3)	Limits apply during initial catalyst depressuring and catalyst purging operations. Limits do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents	Y	
63.1566(a)(4)	Limits do not apply when the reactor vent pressure is 5 pounds per square inch gauge (psig) or less	Y	
63.1566(a)(5)	Prepare an OMMP per 63.1574(f) and operate at all times according to the OMMP	Y	
63.1566(b)	Initial Compliance Demonstration	Y	
63.1566(b)(1)	Initial Compliance – Install a monitoring device (i.e. thermocouple, an ultraviolet beam sensor, or infrared sensor) to ensure pilot light is present on flare (Table 17 Option 1)	Y	
63.1566(b)(2)	Initial compliance: Conduct a performance test by performing a Method 22 visible emissions test and calculate the net heating value and exit velocity of the gas being combusted per 63.11(b)(6) through (8) (Table 18 Option 1)	Y	
63.1566(b)(3)	Demonstrate initial compliance by maintaining the flare pilot light at all times and operating the flare at all times emissions are vented to it during initial catalyst depressuring and purging operation (Table 16, Option 1)	Y	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(b)(6)	Demonstrate initial compliance by using Method 22 observation to ensure visible emissions do not exceed a total of 5 minutes over the 2-hour observation period of the performance test. (Table 19 Option 1)	Y	
63.1566(b)(7)	Submit OMMP as part of Notice of Compliance Status	Y	
63.1566(b)(8)	Submit Notice of Compliance Status per 63.1574	Y	
63.1566(c)	Demonstrate Continuous Compliance	Y	
63.1566(c)(1)	Demonstrate Continuous Compliance by installing a thermocouple, an ultraviolet beam sensor, or infrared sensor to monitor the pilot light presence (Table 15 & 16 Option 1), by ensuring visible emissions do not exceed a total of 5 minutes over the 2-hour period (Table 20, Option 1); Collecting flare monitoring data (Table 21, Option 1)	Y	
63.1566(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operations, Maintenance, and Monitoring Plan	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission limitation options during coke burn-off and catalyst rejuvenation:	Y	
63.1567(a)(1)(i)	Emission Limitations during coke burn-off and catalyst rejuvenation for existing cyclic or continuous catalytic reforming unit – HCl concentration limit: Reduce uncontrolled HCl emissions to a concentration of 10 ppmvd corrected to 3%O ₂ (Table 22, Item 2, Option 2)	Y	
63.1567(a)(2)	Operating limits for wet scrubber: Daily average pH of scrubbing liquid and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation must not fall below the limit established during performance test (Table 23 Item 1)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1567(b)(1)	Demonstrate initial compliance for wet scrubber as control device: Install continuous parameter monitoring systems to measure and record pH of scrubbing liquid and liquid and gas flow rates to wet scrubber (Table 24, Item 1)	Y	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(b)(2)	Demonstrate initial compliance with performance test for concentration standard: measure HCl concentration at the outlet of the scrubber (Table 25, Item 1)	Y	
63.1567(b)(3)	Demonstrate initial compliance with performance test for concentration standard: Establish operating limits for wet scrubber using continuous parameter monitoring systems in accordance with Table 25 as listed: pH level: (Table 25, Item 2.a.i) Liquid-to-gas ratio: (Table 25, Item 2.b.i)	Y	
63.1567(b)(5)	Demonstrate initial compliance with emission limitation if average HCl emissions during performance test using Method 26 are <= 10 ppmvd corrected to 3% O2. (Table 26, Option 2)	Y	
63.1567(b)(6)	Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(7)	Submit Notice of Initial Compliance Status containing results of initial compliance demonstration	Y	
63.1567(c)	Continuous compliance demonstration with emission limitations and work practice standards	Y	
63.1567(c)(1)	Demonstrate continuous compliance with emission limitation: maintain HCl concentration <= 10 ppmvd corrected to 3% O2 (Table 27, Item 2) and collect hourly and daily average pH monitoring data and hourly average gas flow rate and scrubbing liquid flow rate monitoring data and determine and record hourly average liquid-to-gas ratio, and maintain pH and liquid-to-gas ratio above the operating limits established during performance test (Table 28, Items 1.a and 1.b)	Y	
63.1567(c)(2)	Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Comply with visible emissions limit at all times specified in 63.6(h)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(e)	Operate in accordance with SSMP during periods of startup, shutdown, and malfunction	Y	

Table IV – SB.10
Source-specific Applicable Requirements
~~S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(4)	Performance tests not conducted during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1571(d)	Adjustment for measured values	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to Operating limits (optional)	Y	
<u>63.1571(e)(1)</u>	<u>Procedures to change established operating limit for continuous parametric monitoring system (CPMS)</u>	<u>Y</u>	
<u>63.1571(e)(2)</u>	<u>Requirement to change established operating limit for CPMS if there are any changes in process or operating conditions that could affect control system performance</u>	<u>Y</u>	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring system (CPMS) requirements	Y	
63.1572(c)(1)	Follow manufacturer's specifications to install, operate, and maintain continuous parameter monitoring systems	Y	
63.1572(c)(2)	CPMS must complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data	Y	
63.1572(c)(3)	Valid hourly data required at least 75% of process operating hours	Y	
63.1572(c)(4)	CPMS must determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	CPMS must record results of inspection, calibration, and validation check	Y	
63.1572(d)	Data monitoring and collection requirements	Y	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Do not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(i)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576(a)	Required Records – General	Y	
<u>63.1576(c)</u>	<u>Maintain records of visible emissions observations per 63.6(h)</u>	<u>Y</u>	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU for catalytic reforming units	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
<u>63.1577</u>	<u>Parts of Subpart A General Provisions which apply to this Subpart</u>	<u>Y</u>	
BAAQMD Condition # 4357			
Part 1	Definitions	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 4D	Monitoring and Source Testing (basis: cumulative increase, offsets)	Y	
Part 5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 6A	Process Unit Design (basis: cumulative increase)	Y	
Part 6B	Process Unit Design	Y	
Part 8	Hydrocarbon Controls	Y	
Part 9	Sulfur Recovery Facilities	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	

Table IV – SB.10
Source-specific Applicable Requirements
S848 FCCU: MEROX UNIT, S850 No. 3 HDS UNIT, S1020-No. 3 UOP REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 17292			
Part 1	Activated Carbon Minimum Capacity Requirement (basis: toxics)	Y	
Part 2	Activated Carbon Change Out Requirement (basis: toxics)	Y	
Part 3	60-90 day Source Test (basis: startup, toxics)	Y	
Part 4	300-330 day Source Test (Basis: toxics)	Y	
Part 5	Recordkeeping (basis: toxics, recordkeeping)	Y	

Table IV – ~~XX1~~ B.11
Source-specific Applicable Requirements
DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements Visible Emissions (12/05/2007)		
6-1-301	Ringelmann No. 1 limitation	Y N	
6-1-305	Visible Particles	Y N	
6-1-310	Particulate Weight Limitation	Y N	
6-1-311	General Operations (process weight rate limitation)	Y N	
6-1-401	Appearance of Emissions	Y N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	N	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 limitation</u>	Y	

Table IV – ~~XXI~~ B.11
Source-specific Applicable Requirements
DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-311	<u>General Operations (process weight rate limitation)</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 9	<u>Organic Compounds – Vacuum Producing Systems (07/20/1983)</u>		
8-9-301	Vacuum Producing Systems	Y	
BAAQMD Regulation 8, Rule 10	<u>Organic Compounds – Process Vessel Depressurization (01/21/2004)</u>		
8-10-114	Exemption for batch processes, including delayed coker vessels	N	
BAAQMD Condition #19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition #23129			
Part 2	Wash Coker Pit and dewatering pad area daily (basis cumulative increase)	Y	
Part 3	Throughput limit S-1510 (basis: cumulative increase)	Y	
Part 6	Process sample systems in light liquid service (basis: cumulative increase)	Y	
Part 7	Initial Fugitive Count (basis: cumulative increase, toxics)	Y	
Part 8	Recordkeeping S-1510 (basis: recordkeeping)	Y	

SECTION C COMBUSTION SOURCES
SECTION C.1 COMBUSTION - BOILERS

Table IV – ~~YC.1.1~~
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/0007/19/2006)		
1-520	Continuous Emission Monitoring	Y	
<u>1-520.5</u>	<u>SO₂ and opacity monitoring for catalyst regenerators for fluid catalytic cracking units</u> ^{6, 7}	<u>Y</u>	
1-520.8 ⁶	Monitors pursuant to Regulations 10, 12 and 2-1-403 ⁸	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (<u>06/28/1999</u>)		

⁶ Emission limits for opacity apply to S802 but are monitored at S901.

⁷ Emission limits for SO₂ apply to S802 but are monitored at S901.

⁸ Monitors are required by Regulation 10 (NSPS J) for opacity and SO₂ emissions limits that apply to S802 but are monitored at S901.

Table IV – ~~VC.1.1~~
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/9012/05/2007)		
<u>6-1-301</u>	Ringelmann No. 1 Limitation	Y N	
<u>6-1-302</u>	Opacity Limitation	Y	
<u>6-1-304</u>	Tube Cleaning	Y N	
<u>6-1-305</u>	Visible Particles	Y N	
<u>6-1-310</u>	Particle Weight Limitation	Y N	
<u>6-1-310.3</u>	Heat transfer operations	Y N	
<u>6-1-311</u>	<u>General Operations (process weight rate limitation)⁹</u>	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	Ringelmann No. 1 Limitation	Y	
<u>6-302</u>	<u>Opacity Limitation</u>	Y	
<u>6-304</u>	<u>Tube Cleaning</u>	Y	
<u>6-305</u>	Visible Particles	Y	
<u>6-310</u>	<u>Particle Weight Limitation</u>	Y	
<u>6-310.3</u>	<u>Heat transfer operations</u>	Y	
<u>6-311</u>	<u>General Operations (process weight rate limitation)</u>	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	Y	
BAAQMD Regulation 8, Rule 18	Fugitives Monitoring	Y	

⁹ Emission limits for particulate matter apply to S802 but are monitored at S901.

Table IV – ~~VC.1.1~~
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
9-1-502	Continuous Emissions Monitoring if required by APCO	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/9407/17/2002)		
9-10-303.1	Federal Interim Facility-wide NOx emission limit for CO Boilers	Y	
9-10-304	NOx emission limit for CO Boilers	N	
<u>9-10-304.1</u>	<u>NOx emission limit for CO Boilers</u>	<u>N</u>	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	Y <u>N</u>	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303</u>	<u>N</u>	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	<u>Y</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	<u>N</u>	
9-10-603	Compliance Determination	<u>Y</u>	
9-10-604	Determination of Higher Heating Value	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/9404/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	
<u>9-10-505</u>	<u>Reporting for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	

Table IV – VC.1.1
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Manual of Procedures, Volume V</u>	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	
BAAQMD Condition # 4357			
Part 1	Definitions	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 4D	Monitoring and Source Testing (basis: cumulative increase, offsets)	Y	
Part 5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 9	Sulfur Recovery Facilities	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition # 7397		Y	
Part 1	Limit on Ammonia Injection at A-30 (basis: toxics)	Y	
Part 2	Requirement for Ammonia Flow Meter and Recorder Record Keeping (basis: toxics, cumulative increase, offsets)		
Part 3	Gaseous Fuel Requirement (basis: Cumulative increase)	Y	

Table IV – VC.1.1
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 8077</u>			
<u>Part B1</u>	<u>Definitions (basis: definitions)</u>	<u>Y</u>	
<u>Part B2</u>	<u>Emissions (basis: cumulative increase, BACT, offsets)</u>	<u>Y</u>	
<u>Part B3</u>	<u>Emission reductions (basis: cumulative increase, offsets, bubble</u>	<u>Y</u>	
<u>Part B4</u>	<u>Monitoring</u>	<u>Y</u>	
<u>Part B4D</u>	<u>Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Record Keeping (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition-# 11433</u>			

Table IV – ~~VC.1.1~~
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Requirement for abatement by A-30 Electrostatic Precipitator (basis: cumulative increase, BACT, offsets)	Y	
Part 2	Annual emission limits by pollutant (basis: cumulative increase, BACT, offsets)	Y	
Part 2A	NO _x , CO₂ , and SO ₂ CEM requirement (basis: cumulative increase, BACT)	Y	
Part 2B	Continuous Opacity Monitor (basis: Reg. 6- 1 -302)	Y	
Part 3	Requirement for new pressure relief valves to be vented to flare vapor recovery system (basis: cumulative increase, BACT, offsets)	Y	
Part 4	Requirement to monitor and calculate emissions (basis: cumulative increase, BACT, offsets)	Y	
Part 5	Procedure for development of new emission factors (basis: cumulative increase, offsets)	Y	
Part 6	Record keeping (basis: cumulative increase, offsets, BACT)	Y	
<u>Part 8</u>	<u>Consent decree SO₂ Emission Limits (basis: Consent Decree §§ 82)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Consent decree CO Emission Limits (basis: Consent Decree §§ 94)</u>	<u>Y</u>	
<u>Part 10</u>	<u>Consent decree Particulate Emission Limits (basis: Consent Decree §§ 95)</u>	<u>Y</u>	
<u>Part 11</u>	<u>Consent Decree NSPS Applicability and CEMS requirements: SO₂, CO, opacity, particulate matter. NSPS limits not applicable during startup, shutdown or malfunction (basis: Consent Decree §§ 99, 102, 107A, 110)</u>	<u>Y</u>	
<u>Part 12</u>	<u>Consent Decree short-term NO_x and SO₂ limits not applicable during hydrotreater outage, including startup, shutdown or malfunction (basis: Consent Decree §§ 85)</u>	<u>Y</u>	
<u>Part 14</u>	<u>Consent Decree SO₂ monitoring requirements (basis: Consent Decree §§ 90, 91)</u>	<u>Y</u>	
<u>Part 15</u>	<u>Consent Decree exemptions from NSPS notification requirements (basis: Consent Decree §§ 100, 108)</u>	<u>Y</u>	
<u>Part 16</u>	<u>Consent Decree CEMS accuracy test allowances (basis: Consent Decree §§ 62, 90, 101, 109)</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – ~~YC.1.1~~
Source-specific Applicable Requirements
S901- NO. 7 BOILER - FCCU CO BOILER
ABATES S802

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 22150</u>			
<u>Part 1</u>	<u>Continuous opacity monitoring of A-30 ESP (basis: Regulation 6-1-310, 2-6-503)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Operate with opacity emissions no more than one 6-minute average in an hour that exceeds 30%. An exceedance of opacity limit deemed an exceedance of BAAQMD 6-1-310) (basis: Regulation 2-6-503)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Exceedances of parametric compliance range are deviations and shall be reported as deviations in all Title V reports. (basis: Regulation 2-6-503)</u>	<u>Y</u>	

Table IV – ~~ZC.1.23~~
Source-specific Applicable Requirements
S904-No. 6 BOILER
NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
<u>1-520.1</u>	<u>NOx, CO2, and O2 monitors for steam generators > 250 MMBtu/hr</u>	<u>Y</u>	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	

**Table IV – ~~ZC.1.23~~
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-522.10</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD	Particulate Matter; General Requirements (12/05/2007)		
Regulation 6			
Rule 1			
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
<u>6-1-304</u>	<u>Tube Cleaning</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particle Weight Limitation</u>	<u>N</u>	
<u>6-1-310.3</u>	<u>Heat transfer operations</u>	<u>N</u>	
6-1-501	Sampling facilities and instruments required	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
BAAQMD	Particulate Matter and Visible Emissions (12/19/9009/04/1998)		
SIP			
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-501	Sampling facilities and instruments required	Y	

**Table IV – ~~ZC.1.23~~
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 18	Fugitives Monitoring	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
9-1-110.1	Requirement to comply with the monitoring, records, and reporting requirements contained in Regulation 1, including Sections 1-510, 530, 540, 542, 543, and 544.	Y	
9-1-110.2	Limitation on sulfur dioxide emissions resulting in ground level concentrations of sulfur dioxide in excess of the limits specified in Section 9-1-301.	Y	
9-1-502	Continuous Emissions Monitoring if required by APCO	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94/07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
<u>9-10-303</u>	<u>Interim Emission Limit for Facility (Federal Requirements)</u>	<u>Y</u>	
9-10-303.1	Federal Interim Facility-wide NOx emission limit for CO Boilers (Limit applies when S904 burns S806 Coker exhaust due to S903 being out of service)	Y	
9-10-304	NOx emission limit for CO Boilers (Limit applies when S904 burns S806 Coker exhaust due to S903 being out of service)	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring <u>for sources subject to 9-10-301, 303, 304, and 305</u>	<u>NY</u>	
9-10-502.1	CEMS for NOx, CO, and O2	<u>NY</u>	
9-10-502.2	Fuel flowmeters	<u>NY</u>	
9-10-504	Recordkeeping	Y N	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303</u>	<u>N</u>	

**Table IV – ~~ZC.1.23~~
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	Y N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/9404/12/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 10 Subpart A	Standards of Performance for New Stationary Sources NSPS Incorporation by Reference, General Provisions incorporated by reference (02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
BAAQMD Regulation 10 Subpart J	NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
BAAQMD Manual of Procedures, Volume V	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	N	
NSPS 40 CFR 60 Subpart A	General Provisions (8/27/2001)	Y	
60.7	Notification and recordkeeping	Y	
60.8	Performance tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Good Operating Practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
NSPS-40 CFR 60 Subpart J	NSPS - Standards of Performance for Petroleum Refineries (10/17/2000)06/24/2008) <u>Applicability specified in Condition 23562</u>	Y	
60.104	Standards for sulfur oxides	Y	

**Table IV – ~~ZC.1.23~~
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	—monitoring <u>Monitoring</u> requirements 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	
<u>60.105(a)(4)(i)</u>	<u>Span value for H2S monitoring is 425 mg/dscm H2S</u>	<u>Y</u>	
<u>60.105(a)(4)(ii)</u>	<u>Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location</u>	<u>Y</u>	
<u>60.105(a)(4)(iii)</u>	<u>Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations</u>	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semiannual reporting</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of semiannual report</u>	<u>Y</u>	
NSPS Title 40 Part CFR 60 Appendix B	NSPS – Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004/10/17/2000)		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part CFR 60 –Appendix F	NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures- (01/12/2004/06/13/2007)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 4357			
Part 1	Definitions	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3A	Emission Reductions (basis: cumulative increase, bubble)	Y	

**Table IV – ZC.1.23
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 4B	Monitoring and Source Testing (basis: cumulative increase, offsets, BACT)	Y	
Part 5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 6A	Process Unit Design (basis: cumulative increase)	Y	
Part 6B	Process Unit Design	Y	
Part 6C	Process Unit Design	Y	
Part 7	Combustion Controls	Y	
Part 8	Hydrocarbon Controls	Y	
Part 9	Sulfur Recovery Facilities	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
<u>BAAQMD Condition 8077</u>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	

Table IV – ~~ZC.1.23~~
Source-specific Applicable Requirements
S904-No. 6 BOILER

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
BAAQMD Condition # 16685	Firing rate limitations	Y	
Part 1	Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403)	Y	
Part 2	Fuel Use Record Keeping (basis: cumulative increase, Regulation 2-1-403)	∅	
BAAQMD Condition # 17322		∅	
Part 1	Maximum Firing Rate (basis: cumulative increase, BACT, offsets)	Y	
Part 1a	Only gaseous fuels could be used (basis: cumulative increase)	Y	
Part 2	Requirement for abatement by A-904 SCR System and meeting 0.033 lb NOx/MMBtu (basis: Reg. 9-10)	Y	
Part 3	Fuel Flow Meter (basis: Reg. 9-10)	∅	
Part 4	In stack CEM requirement (basis: Reg. 9-10)	Y	
Part 4a	Continuous Opacity Monitor (basis: Reg. 6-302)	∅	
Part 5	Ammonia emission limit (basis: toxics)	N	
Part 6	Deleted condition obsolete Semiannual ammonia source test	Y	D

**Table IV – ZC.1.23
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6 aA	Source test protocol Deleted condition obsolete	Y	D
Part 6 bB	Source test conditions Deleted condition obsolete	Y	D
Part 6 eC	Submittal of source test results Deleted condition obsolete	Y	D
Part 6 d	Ammonia Testing (basis: toxics)	N	
Part 7	Record keeping (basis: Reg. 9-10)	N	
Part 8	Deleted condition duplicated by condition ID #4357	N	
BAAQMD Condition-# 18372			
Part 26	Operating Modes (basis: Cumulative increase)	N	
Part 27	Sources subject to refinery-wide NOx emission rate and CO concentration limit. <u>Daily Firing Rate Limits</u> (Regulation 9-10-301, 303, & 305)	Y	
Part 28	Sources subject to refinery-wide NOx emission rate and CO concentration limit (Regulation 9-10-301 & 305)	Y	
Part 36	Recordkeeping (Recordkeeping, Regulation 9-10-504)	Y	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
BAAQMD Condition-# 22590			
Part 1	Natural gas line to pilots to have dedicated fuel flow meters (basis: cumulative increase)	Y	
Part 2	Maximum firing rate of 775 MMBtu/hr (HHV) (cumulative increase)	Y	
Part 3	Records (cumulative increase, recordkeeping)	N	
BAAQMD Condition-# 23562			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS	Y	

**Table IV – ~~ZC.1.23~~
 Source-specific Applicable Requirements
 S904-No. 6 BOILER**

NSPS SUBPART J BY CONCSNT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)		
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	

**Table IV – C.1.3
 Source-specific Applicable Requirements
 S1550 AND S1551, BACKUP BOILERS**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (06/28/1999)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particle Weight Limitation</u>	<u>N</u>	
<u>6-1-310.3</u>	<u>Heat transfer operations</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	

Table IV – C.1.3
Source-specific Applicable Requirements
S1550 AND S1551, BACKUP BOILERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
6-310	Particle Weight Limitation	<u>Y</u>	
6-310.3	Heat transfer operations	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
<u>40 CFR 60 Subpart Dc</u>	<u>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (1/28/2009)</u>		
60.40c	Applicability and delegation of authority	<u>Y</u>	
60.40c(a)	Applicability: Steam generating units constructed after June 9, 1989 with heat input capacity >= 10 MMBTU/hr and < 100 MMBTU/hr	<u>Y</u>	
60.41c	Definitions	<u>Y</u>	
60.48c	Reporting and recordkeeping requirements	<u>Y</u>	
60.48c(a)	Reporting and recordkeeping: Notifications of construction dates and actual startups per 40 CFR 60.7. Notifications shall include:	<u>Y</u>	
60.48c(a)(1)	Design heat input capacity and fuels to be combusted	<u>Y</u>	
60.48c(a)(3)	Annual capacity factor anticipated for each fuel	<u>Y</u>	
60.48c(g)(2)	Alternative recordkeeping requirements – monthly natural gas use	<u>Y</u>	
60/48c(i)	Record retention requirements	<u>Y</u>	
<u>BAAQMD Condition 24491</u>			
Part 1	Fire only on natural gas. Firing rate limit. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)	<u>Y</u>	
Part 2	Six consecutive month on-site limit per 12 consecutive months (Basis: BACT)	<u>Y</u>	
Part 3	Hours of operation limit per 12 consecutive months. (Basis: Cumulative Increase, Offsets, Toxics)	<u>Y</u>	
Part 4	SCR abatement requirements and exceptions for startups and shutdowns. (Basis: Cumulative Increase, Offsets, Toxics)	<u>Y</u>	
Part 5	Continuous fuel flow meter requirements. (Basis: Cumulative Increase, Offsets, Toxics)	<u>Y</u>	
Part 6	Fuel consumption limit per 12 consecutive months. (Basis: Cumulative Increase, Offsets, Toxics)	<u>Y</u>	
Part 7	NOx emission limit (except during allowable startup and shutdown periods). (Basis: Cumulative Increase, Offsets, BACT)	<u>Y</u>	
Part 8	NOx emission limit during allowable startup and shutdown periods. (Basis: Cumulative Increase, Offsets)	<u>Y</u>	

Table IV – C.1.3
Source-specific Applicable Requirements
S1550 AND S1551, BACKUP BOILERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 9	CO emission limit. (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 10	Source test and source test report requirements. (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 11	Recordkeeping requirements. (Basis: Cumulative Increase, Offsets, Toxics, BACT)	Y	

SECTION C.2 COMBUSTION - FLARES

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-522.10</u>	<u>Monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (06/28/1999)</u>		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>N</u>	
<u>6.1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
<u>BAAQMD-SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (12/19/9009/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments</u>	<u>Y</u>	

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>and Appraisal of Visible Emissions</u>		
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources <u>incorporated by reference (02/16/2000)</u>	Y	
<u>10-14</u>	<u>Subpart J – Standards of Performance for Petroleum Refineries Subpart J</u>	Y	
BAAQMD Regulation 12 Rule 11	Flare Monitoring at Petroleum Refineries (06/04/2003)		
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
<u>12-11-601</u>	<u>Testing, Sampling, and Analytical Methods</u>	N	
<u>12-11-602</u>	<u>Flow Verification Test Methods</u>	N	
BAAQMD Regulation 12 Rule 12	Flares at Petroleum Refineries (04/05/2006)		
<u>12-12-301</u>	<u>Flare Minimization</u>	N	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	N	
<u>12-12-405</u>	<u>Notification of Flaring</u>	N	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	N	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	N	
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	N	
40 CFR Part 60 Subpart A	New Source Performance Standards – General Provisions (12/23/71)	Y	
<u>60.1</u>	<u>Applicability</u>	Y	
<u>60.2</u>	<u>Definitions</u>	Y	

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record-keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumstances	Y	
60.13	Monitoring requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity measuring devices	Y	
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.18	General control device and work practice requirements	Y	
40 CFR 60.18(e)(1)	Limitation on visible emissions	Y	
40 CFR 60.18(e)(2)	Requirement for a flame to be present at all times	Y	
40 CFR 60.18(e)(3)	Requirement to meet heat content specification and maximum tip velocity specification	Y	
40 CFR 60.18(e)(4)	Steam-assisted and nonassisted flare exit velocity requirement.	Y	
40 CFR 60.18(e)(5)	Air-assisted flare exit velocity requirement.	Y	
40 CFR 60.18(e)(6)	Flares are steam-assisted, air-assisted, or nonassisted.	Y	
40 CFR 60.18(d)	Monitoring requirements.	Y	
40 CFR 60.18(e)	Flares shall be operated at all times when emissions may be vented to them.	Y	
40 CFR 60.18(f)	Monitoring and compliance procedures	Y	

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.19	General notification and reporting requirements	Y	
NSPS Title 40 Part 40 CFR 60 Subpart J	NSPS Subpart J- Standards of Performance for Petroleum Refineries (08/17/1989)(06/24/2008)		
40 CFR 60.18(e)(1)	Limitation on visible emissions	Y	
40 CFR 60.18(e)(2)	Requirement for a flame to be present at all times	Y	
40 CFR 60.18(e)(2)	Requirement to meet heat content specification or maximum tip velocity specification	Y	
40 CFR 60.100(a)	Applicability: FCCU Catalyst-Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD) Fuel Gas Combustion Devices of Refineries	Y	
40 CFR 60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/June 11, 1973 and before May 14, 2007	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 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. Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H2S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105(a)(4)(iv)	Exemption from §60.105(a)(3) or (a)(4) for fuel gas streams exempt under §60.104(a)(1) and under this paragraph. Must comply with §60.105(a)(3) or (a)(4) within 15 days of loss of exemption.	Y	
60.105(a)(4)(iv)(A)	Exemption for pilot gas for heaters and flares – presumed to be low sulfur content	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(e)	Records of the specific exemption chosen under §60.105(a)(4)(iv)(A) for flare pilot gas.	Y	
40 CFR Part 63 Subpart A	General Provisions	Y	06/01/03

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.11	Control device requirements	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	6/1/04
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	1/1/05
Part 11C	Inspection Inspection procedure for "Flaring Event" (basis: Regulation Regulation 6-1-301; 2-1-403)	Y	1/1/05
Part 11D	Requirements for "Visual Inspection Inspection" of a flaring event (basis: Regulation-Regulation 2-6-403)	Y	1/1/05
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation-Regulation 2-6-501; 2-6-409.2)	Y	1/1/05
Part 11F	Conditions for Monitoring Smoking Flares	Y	1/1/05
<u>BAAQMD Condition 23129</u>	<u>Applies to S1517 only</u>		
Part 51	Requirement to inject steam in flare (basis: BACT)	Y	
Part 52	POC abatement efficiency (basis: BACT)	Y	
Part 53	Flare pilots natural gas requirement and annual throughput (basis: cumulative increase)	Y	
Part 54	Comply with NSPS Subpart J (basis: 40 CFR 60 Subpart J)	Y	
Part 55	H2S CEM (basis: Regulation 12, Rule 11)	Y	
Part 56	Flare purge natural gas requirement and annual throughput (basis: cumulative increase)	Y	
Part 57	Recordkeeping S-1517 (basis: Regulation 2-6-501)	Y	
<u>BAAQMD Condition 24323</u>	<u>Applies to S1524 only</u>		
Part 2	<u>Operate S-1524 Flare only during upsets, malfunctions or emergencies. (basis: BACT, Cumulative Increase)</u>	Y	
Part 3	<u>Comply with NSPS Subpart J. (basis: NSPS)</u>	Y	

Table IV – UC.2.1
Source-specific Applicable Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517 -COKER FLARE, S1524 50 UNIT FLARE, S1013-AMMONIA PLANT FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	<u>Comply with NSPS Subpart A, 40 CFR 60.18 (basis: NSPS)</u>	<u>Y</u>	
Part 6	<u>Requirement for steam assisted, staged combustion to minimize smoke. (basis: BACT)</u>	<u>Y</u>	
Part 7	<u>Flare hydrocarbon destruction efficiency >= 98% mass basis. (basis: BACT).</u>	<u>Y</u>	
Part 8	<u>Flare pilot natural gas throughput limit (basis: cumulative increase)</u>	<u>Y</u>	
Part 9	<u>Continuous H2S vent gas monitoring (basis: Regulation 12-11-501 and 12-11-506)</u>	<u>Y</u>	
Part 10	<u>Flare purge natural gas throughput limit (basis: cumulative increase)</u>	<u>Y</u>	
Part 11	<u>Recordkeeping requirements (basis: Regulation 2-6-501)</u>	<u>Y</u>	
<u>BAAQMD Condition 24324</u>	<u>Applies to S854, S992, S1012 and S1517only</u>		
Part 1	<u>Operate only when in compliance with NSPS (basis: Consent Decree §§ 231 and 238)</u>	<u>Y</u>	
Part 2	<u>Comply with NSPS J by operating and maintaining flare gas recovery system. Exemption from H2S monitoring and recordkeeping in §§ 60.105(a)(4) and 60.7. [basis: Consent Decree §§ 233, 235(a)]</u>	<u>Y</u>	
Part 3	<u>Minimize emissions when performing maintenance on Flare Gas Recovery System (basis: Consent Decree § 263)</u>	<u>Y</u>	
Part 4	<u>Flare gas recovery system may be bypassed in event of an emergency (basis: Consent Decree § 264)</u>	<u>Y</u>	
Part 5	<u>Exemption from 60.104(a)(1). [basis: Consent Decree §§ 241]</u>	<u>Y</u>	

Table IV – ~~Xa~~C.2.2
Source-specific Applicable Requirements
S943- BUTANE TANK 691 SAFETY FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – ~~Xa~~C.2.2
Source-specific Applicable Requirements
S943- BUTANE TANK 691 SAFETY FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
6-1-301	Ringelmann Number 1 Limitation	<u>N</u>	
6-1-305	Visible Particles	<u>N</u>	
6-1-310	Particulate Weight Limitation	<u>N</u>	
6-1-401	Appearance of Emissions	<u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
BAAQMD SIP Regulation 6	Particulate Matter and Visible Emissions (12/19/9009/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources (2/16/2000)	Y	
BAAQMD Regulation 12 Rule 11-11	Flare Monitoring at Petroleum Refineries (06/04/2003)		
12-11-110	Exemption, Organic Liquid Storage and Distribution	N	
BAAQMD Regulation 12 Rule 12	Flares at Petroleum Refineries (04/05/2006)		
12-12-110	Exemption, Organic Liquid Storage and Distribution	<u>N</u>	
BAAQMD Condition 19528			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	<u>Y</u>	
Part 11C	Inspection procedure for "Flaring Event" (basis: Regulation 6-1-301; 2-1-403)	<u>Y</u>	

Table IV – ~~Xa~~C.2.2
Source-specific Applicable Requirements
S943- BUTANE TANK 691 SAFETY FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 11D</u>	<u>Requirements for "Visual Inspection" of a flaring event (basis: Regulation 2-6-403)</u>	<u>Y</u>	
<u>Part 11E</u>	<u>Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)</u>	<u>Y</u>	

Table IV – ~~X~~C.2.3
Source-specific Applicable Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, ~~S1012-WEST AIR FLARE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
<u>SIP: Regulation 1</u>	<u>General Provisions and Definitions (06/28/1999)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
<u>BAAQMD</u>	<u>Particulate Matter and Visible Emissions (12/19/9009/04/1998)</u>		

Table IV – ~~XC.2.3~~
Source-specific Applicable Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, ~~S1012-WEST AIR FLARE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP</u> Regulation 6			
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources (2/16/2000)	Y	
10-14	Subpart J	Y	
BAAQMD Regulation 12 Rule -11	Flare Monitoring at Petroleum Refineries (06/04/2003)		
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	
<u>12-11-601</u>	<u>Testing, Sampling, and Analytical Methods</u>	<u>N</u>	
<u>12-11-602</u>	<u>Flow Verification Test Methods</u>	<u>N</u>	
BAAQMD Regulation 12 Rule 12	Flares at Petroleum Refineries (04/05/2006)		
<u>12-12-301</u>	<u>Flare Minimization</u>	<u>N</u>	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-405</u>	<u>Notification of Flaring</u>	<u>N</u>	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	<u>N</u>	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	<u>N</u>	

Table IV – ~~X~~C.2.3
Source-specific Applicable Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, ~~S1012-WEST AIR FLARE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	<u>N</u>	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	6/1/04
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	1/1/05
Part 11C	Inspection-Inspection procedure for "Flaring Event" (basis: Regulation Regulation 6-1-301; 2-1-403)	Y	1/1/05
Part 11D	Requirements for "Visual Inspection Inspection" of a flaring event (basis: Regulation Regulation 2-6-403)	Y	1/1/05
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation Regulation 2-6-501; 2-6-409.2)	Y	1/1/05

Table IV – C.2.4
ACID GAS FLARES SUBJECT TO NSPS
Source-specific Applicable Requirements
ACID GAS FLARES SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration: written policy</u>	<u>N</u>	

Table IV – C.2.4
ACID GAS FLARES SUBJECT TO NSPS
Source-specific Applicable Requirements
ACID GAS FLARES SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	<u>Report exceedances</u>	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6.1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
BAAQMD Regulation 12 Rule 11	Flare Monitoring at Petroleum Refineries (06/04/2003)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	

Table IV – C.2.4
ACID GAS FLARES SUBJECT TO NSPS
Source-specific Applicable Requirements
ACID GAS FLARES SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>12-11-506</u>	<u>General Monitoring Requirements</u>	<u>N</u>	
<u>12-11-506.1</u>	<u>Periods of Inoperation of Vent Gas Monitoring</u>	<u>N</u>	
<u>12-11-507</u>	<u>Video Monitoring</u>	<u>N</u>	
<u>12-11-601</u>	<u>Testing, Sampling, and Analytical Methods</u>	<u>N</u>	
<u>12-11-602</u>	<u>Flow Verification Test Methods</u>	<u>N</u>	
BAAQMD Regulation 12 Rule 12	<u>Flares at Petroleum Refineries (04/05/2006)</u>		
<u>12-12-301</u>	<u>Flare Minimization</u>	<u>N</u>	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-405</u>	<u>Notification of Flaring</u>	<u>N</u>	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	<u>N</u>	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	<u>N</u>	
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	<u>N</u>	
<u>40 CFR Part 60 Subpart A</u>	<u>New Source Performance Standards – General Provisions (12/23/71)</u>	<u>Y</u>	
<u>60.18</u>	<u>General control device and work practice requirements</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (1)</u>	<u>Limitation on visible emissions</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (2)</u>	<u>Requirement for a flame to be present at all times</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (3)</u>	<u>Requirement to meet heat content specification and maximum tip velocity specification</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (4)</u>	<u>Steam-assisted and nonassisted flare exit velocity requirement.</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (5)</u>	<u>Air-assisted flare exit velocity requirement.</u>	<u>Y</u>	
<u>40 CFR 60.18(e) (6)</u>	<u>Flares are steam-assisted, air-assisted, or nonassisted.</u>	<u>Y</u>	
<u>40 CFR 60.18(d)</u>	<u>Monitoring requirements.</u>	<u>Y</u>	
<u>40 CFR 60.18(e)</u>	<u>Flares shall be operated at all times when emissions may be vented to them.</u>	<u>Y</u>	
<u>40 CFR 60.18(f)</u>	<u>Monitoring and compliance procedures</u>	<u>Y</u>	
<u>40 CFR 60 Subpart J</u>	<u>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</u>	<u>Y</u>	
<u>60.100</u>	<u>Applicability</u>	<u>Y</u>	
<u>60.100(a)</u>	<u>Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)</u>	<u>Y</u>	

Table IV – C.2.4
ACID GAS FLARES SUBJECT TO NSPS
Source-specific Applicable Requirements
ACID GAS FLARES SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
60.100(b)	<u>Applicability: Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007</u>	<u>Y</u>	
60.104	<u>Standards for sulfur oxides</u>	<u>Y</u>	
60.104(a)(1)	<u>Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H2S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.</u>	<u>Y</u>	
60.105	<u>Monitoring of emissions and operations</u>	<u>Y</u>	
60.105(a)(4)(iv)	<u>Exemption from §60.105(a)(3) or (a)(4) for fuel gas streams exempt under §60.104(a)(1) and under this paragraph. Must comply with §60.105(a)(3) or (a)(4) within 15 days of loss of exemption.</u>	<u>Y</u>	
60.105(a)(4)(iv)(A)	<u>Exemption for pilot gas for heaters and flares – presumed to be low sulfur content</u>	<u>Y</u>	
60.107	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
60.107(e)	<u>Records of the specific exemption chosen under §60.105(a)(4)(iv)(A) for flare pilot gas.</u>	<u>Y</u>	
<u>BAAQMD Condition 19528</u>			
Part 11B	<u>Definition of “Flaring Event” and inspection frequency requirements (basis: Regulation 2-6-409.2)</u>	<u>Y</u>	
Part 11C	<u>Inspection Procedure for “Flaring Event” (basis: Regulation 6-1-301; 2-1-403)</u>	<u>Y</u>	
Part 11D	<u>Requirements for “Visual Inspection” of a flaring event (basis: Regulation 2-6-403)</u>	<u>Y</u>	
Part 11E	<u>Recordkeeping of “Flaring Events” and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)</u>	<u>Y</u>	

SECTION C.3 COMBUSTION - INTERNAL COMBUSTION ENGINES

**Table IV – ~~Db (Amoreo Wharf)~~ C.3.1
 Source-specific Applicable Requirements
 Facility B2759
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90)(12/05/2007)		
6-1-303 4	Ringelmann Number 4 Limitation	N	
6-1-303.1	For Emergency Standby Engines	<u>N</u>	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303 4	Ringelmann Number 4 Limitation	<u>Y</u>	
6-303.1	For Emergency Standby Engines	<u>Y</u>	
6-305	Visible Particles	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-401	Appearance of Emissions	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995; 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)(7/25/2007)		
9-8-110	Exemptions	<u>N</u>	
9-8-110.5	Exemptions; Emergency Standby Engines	<u>N</u>	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-330.2	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-330.3	Emergency Standby Engines, Hours of Operation	<u>N</u>	1/1/2012
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	

**Table IV – ~~Db (Amoreo Wharf) C.3.1~~
 Source-specific Applicable Requirements
 Facility B2759
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
CARB ATCM	Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)	<u>Y</u>	
93115.1	Purpose	<u>N</u>	
93115.2	Applicability	<u>N</u>	
93115.4	Definitions	<u>N</u>	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	<u>N</u>	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	<u>N</u>	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	<u>N</u>	
93115.5(a)(1)	Must use CARB Diesel Fuel	<u>N</u>	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	<u>N</u>	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	<u>N</u>	
93115.6(a)(3)	New Engines	<u>N</u>	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	<u>N</u>	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	<u>N</u>	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	<u>N</u>	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	<u>N</u>	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	<u>N</u>	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	<u>N</u>	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	<u>N</u>	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	<u>N</u>	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 83115.6(a)(4)	<u>N</u>	
93115.6(a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	<u>N</u>	

**Table IV – ~~Db (Amoreo Wharf) C.3.1~~
 Source-specific Applicable Requirements
 Facility B2759
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	
93115.6(a)(4)(A)(1)(a)	Compliance schedule for 13 CCR 2423 Tier 2, Tier 3, and Tier 4 standards	N	
93115.6(a)(4)(A)(1)(b)	Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(4)(B)	New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	N	
93115.10	Recordkeeping, Reporting and Monitoring	N	
93115.10(e)	Monitoring equipment	N	
93115.10(e)(1)	Non resettable hour meter	N	
93115.10(e)(3)	District may require additional monitoring	N	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(g)(1)	Records and monthly summary required	N	
93115.10(g)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for New Stationary RICE > 500 bhp		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(2)	An new stationary RICE is:	Y	
63.6590(a)(2)(i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Stationary RICE subject to limited requirements must only meet initial notification requirements of 63.6645(f) if	Y	
63.6590(b)(1)(i)	the stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	Y	
63.6645	Notifications	Y	
63.6645(f)	Initial notification requirement when no other requirements apply	Y	
BAAQMD Condition # 20573	S56: S57 Parts 1 through 5 S57: S57 Parts 1 through 6		
S56: Part 1	Hours of operation limit for reliability related activities (basis: Regulation 9-8-330)	N	
S56: Part 2	Emergency use (basis: Regulation 9-8-231)	N	
S56: Part 3	Reliability related activities (basis: Regulation 9-8-232)	N	

**Table IV – ~~Db (Amoreo Wharf) C.3.1~~
 Source-specific Applicable Requirements
 Facility B2759
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
S56: Part 4	Monitoring (basis: Regulation 9-8-530)	N	
S56: Part 5	Recordkeeping (basis: Regulation 9-8-530, 1-441)	N	
S57: Part 1	Hours of operation limit for reliability-related activities (basis: Regulation 9-8-330)	N	
S57: Part 2	Emergency use (basis: Regulation 9-8-231)	N	
S57: Part 3	Reliability-related activities (basis: Regulation 9-8-232)	N	
S57: Part 4	Monitoring (basis: Regulation 9-8-530)	N	
S57: Part 5	Recordkeeping (basis: Regulation 9-8-530, 1-441)	N	
S57: Part 6	Fuel requirements (basis: BACT)	Y	
<u>BAAQMD Condition 23811</u>			
Part 1	Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b) and 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.4(29)(b)(3)(A)(2)(b)	Y	
Part 3	Totalizing Meter [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(e)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(g)	Y	

**Table IV – ~~AGC.3.2~~
 Source-specific Applicable Requirements
 S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
 S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
 ENGINES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
6-1-301	<u>Ringelmann Number 1 Limitation</u>	N	
6-1-305	<u>Visible Particles</u>	N	
6-1-310	<u>Particulate Weight Limitation</u>	N	

Table IV – AGC.3.2
Source-specific Applicable Requirements
S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
BAAQMD <u>SIP</u> Regulation 6	Particulate Matter and Visible Emissions (12/19/9009/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995); SIP approved 5/20/92)		
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/9307/25/2007)		
9-8-110	Exemptions	<u>Y</u>	
9-8-111	Limited Exemptions	<u>Y</u>	
9-8-205	Definition: Rich Burn: Exhaust O ₂ < 4 % vol.	<u>Y</u>	
9-8-206	Definition: Lean Burn: Exhaust O ₂ ≥ 4 % vol.	<u>Y</u>	
9-8-301	Emission Limits - Fossil Derived Fuel Gas	<u>N</u> <u>Y</u>	
9-8-301.1	NOx Limits for Rich Burn Engines – <u>56 ppmvd, corrected to 15% O₂</u>	<u>N</u> <u>Y</u>	
9-8-301.1	NOx Limits for Rich Burn Engines - <u>25 ppmvd, corrected to 15% O₂</u>	<u>N</u>	<u>1/1/2012</u>
9-8-301.3	CO Limits	Y	
<u>9-8-401</u>	<u>Compliance schedule – submit ATC as necessary to achieve compliance with NOx limits</u>	<u>N</u>	<u>1/1/2011</u>
<u>9-8-501</u>	<u>Initial source test if source modified or new control equipment installed</u>	<u>N</u>	<u>3/31/2012</u>
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
<u>9-8-502.3</u>	<u>Maintain records of quarterly monitoring data</u>	<u>N</u>	
<u>9-8-503</u>	<u>Quarterly NOx and CO compliance monitoring</u>	<u>N</u>	
<u>9-8-601</u>	<u>Determination of NOx Emissions</u>	<u>N</u>	

Table IV – AGC.3.2
Source-specific Applicable Requirements
S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-602	Determination of CO and O2 Emissions	Y	
SIP Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/1997)		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.1	NOx Limits for Rich Burn Engines – 56 ppmvd, corrected to 15% O2	Y	
9-8-601	Determination of NOx Emissions	Y	
40 CFR 61.349	Standards: Closed vent systems and control devices	Y	
40 CFR 61.349(a)(1)(i)	Fugitives: Closed vent system to operate with no detectable emissions as indicated by instrument reading of less than 500 ppmv as per method in 61.355(h)	Y	
40 CFR 61.349(a)(1)(iii)	Closed Vent System Gauging and Sampling Devices	Y	
40 CFR 61.349(a)(1)(iv)	Closed Vent System Devices Venting to Atmosphere	Y	
40 CFR 61.349(a)(2)(i)	Combustion Device Design	Y	
40 CFR 61.349(a)(2)(i)(A)	Reduce organic emissions by 95 weight percent or greater	Y	
40 CFR 61.349(a)(2)(i)(B)	Achieve a total organic compound concentration of 20 ppmv (Method 18) on a dry basis corrected to 3 percent oxygen or	Y	
40 CFR 61.349(a)(2)(i)(C)	Provide a minimum residence time of 0.5 seconds at a minimum temperature of 760C (1400F). If a boiler or process heater is used as the control device, then the vent stream shall be introduced into the flame zone.	Y	
40 CFR 61.349(a)(2)(ii)	Vapor Recovery Efficiency of carbon adsorption or condenser shall recover or control organic emissions with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.	Y	
40 CFR 61.349(b)	Control Device Operation	Y	
40 CFR 61.349(e)	Control Device Compliance Demonstration	Y	

Table IV – AGC.3.2
Source-specific Applicable Requirements
S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.349(e)(1)	Control Device Engineering Calculations	Y	
40 CFR 61.349(e)(2)	Control Device Performance Tests	Y	
40 CFR 61.349(e)	Control Device: Administrator may request demonstration of applicable conditions in (a)(2) of this section by conducting a performance test using test methods and procedures in 61.355, and for control devices subject to (a)(2)(iv) of this section, the Administrator may specify alternative test methods and procedures, as appropriate.	Y	
40 CFR 61.349(f)	Quarterly Visual Inspection of Closed Vent System and Control Device	Y	
40 CFR 61.349(g)	Closed Vent System Repair	Y	
40 CFR 61.349(h)	Monitoring of control device used to comply with this section in accordance with 61.354(e).	Y	
40 CFR 63 Subpart <u>ZZZZ</u>	<u>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010)</u> <u>Requirements for Existing Stationary RICE</u>		
63.6585	<u>Applicability: stationary RICE at a major or area source of HAP emissions</u>	Y	
63.6585(a)	<u>Definition: stationary RICE</u>	Y	
63.6585(b)	<u>Definition: major source of HAPs</u>	Y	
63.6590	<u>Affected sources</u>	Y	
63.6590(a)	<u>Affected source is any existing, new, or reconstructed stationary RICE</u>	Y	
63.6590(a)(1)	<u>An existing stationary RICE (at a major source of HAPs) is:</u>	Y	
63.6590(a)(1)(i)	<u>_____ <= 500 bhp if commenced construction before June 12, 2006</u>	Y	
63.6590(b)	<u>Stationary RICE subject to limited requirements</u>	Y	
63.6590(b)(3)	<u>_____ Exempt from requirements of Subpart ZZZZ, including initial notification requirements: Existing SI 4SRB <= 500 bhp at major source</u>	Y	
BAAQMD Condition # 4357			
Part 1	Definitions	Y	

Table IV – AGC.3.2
Source-specific Applicable Requirements
S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part 3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part 5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part 8A	Hydrocarbon Controls	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
<u>BAAQMD</u> <u>Condition</u> <u>8077</u>			
Part B1	Definitions	Y	
Part B2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part B3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B8A	Vapors from compressor seals must be collected and vented directly to <u>No. 3 HDS Unit hydrogen make-up compressors, or to a closed gas system</u> (basis: cumulative increase, offsets, BACT)	Y	

Table IV – AGC.3.2
Source-specific Applicable Requirements
S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,
S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURNS
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part B8A</u>	<u>Hydrocarbon Controls</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>BAAQMD Condition 15204</u>			
<u>Part 1</u>	<u>Compressor engines shall be fired exclusively on natural gas (basis: cumulative increase)</u>	<u>Y</u>	
<u>BAAQMD Condition # 19528</u>			
<u>Part 1</u>	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>N</u>	
<u>Part 7</u>	<u>Source test twice per year</u>	<u>N</u>	

Table IV – AHC.3.3
Source-specific Applicable Requirements
S955-INTERNAL COMBUSTION ENGINE,
S956-INTERNAL COMBUSTION ENGINE, S957-INTERNAL COMBUSTION ENGINE,
S958-INTERNAL COMBUSTION ENGINE, S959-INTERNAL COMBUSTION ENGINE,
S960-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 2-STROKE LEAN BURN
ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
BAAQMD SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998-12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995); 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 (1/20/93-07/25/2007)		
9-8-110	Exemptions	Y	
9-8-111	Limited Exemptions	Y	
9-8-205	Definition: Rich Burn: Exhaust O₂ < 4 % vol.	Y	
9-8-206	Definition: Lean Burn: Exhaust O₂ ≥ 4 % vol.	Y	
9-8-301	Emission Limits - Fossil Derived Fuel Gas	YN	
9-8-301.2	—NOx Limits for Lean Burn Engines – 140 ppmvd, corrected to	YN	

**Table IV – AHC.3.3
 Source-specific Applicable Requirements
 S955-INTERNAL COMBUSTION ENGINE,
 S956-INTERNAL COMBUSTION ENGINE, S957-INTERNAL COMBUSTION ENGINE,
 S958-INTERNAL COMBUSTION ENGINE, S959-INTERNAL COMBUSTION ENGINE,
 S960-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 2-STROKE LEAN BURN
 ENGINES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>15% O₂</u>		
<u>9-8-301.2</u>	<u>NOx Limits for Lean Burn Engines – 65 ppmvd, corrected to 15% O₂</u>	<u>N</u>	<u>1/1/2012</u>
<u>9-8-301.3</u>	<u>—CO Limit – 2000 ppmvd, corrected to 15% O₂s</u>	<u>Y</u>	
<u>9-8-401</u>	<u>Compliance schedule – submit ATC as necessary to achieve compliance with NOx limits</u>	<u>N</u>	<u>1/1/2011</u>
<u>9-8-501</u>	<u>Initial source test if source modified or new control equipment installed</u>	<u>N</u>	<u>3/31/2012</u>
<u>9-8-502</u>	<u>Recordkeeping</u>	<u>N</u>	
<u>9-8-502.3</u>	<u>Maintain records quarterly monitoring data</u>	<u>N</u>	
<u>9-8-503</u>	<u>Quarterly NOx and CO compliance monitoring</u>	<u>N</u>	
<u>9-8-601</u>	<u>Determination of NOx Emissions</u>	<u>N</u>	
<u>9-8-602</u>	<u>Determination of CO and O₂ Emissions</u>	<u>Y</u>	
<u>SIP Regulation 9 Rule 8</u>	<u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/5/97)</u>		
<u>9-8-301</u>	<u>Emission Limits – Fossil Derived Fuel Gas</u>	<u>Y</u>	
<u>9-8-301.2</u>	<u>NOx Limits for Lean Burn Engines – 140 ppmvd, corrected to 15% O₂</u>	<u>Y</u>	
<u>9-8-601</u>	<u>Determination of NOx Emissions</u>	<u>Y</u>	
<u>40 CFR 63 Subpart ZZZZ</u>	<u>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for Existing Stationary RICE</u>		
<u>63.6585</u>	<u>Applicability: stationary RICE at a major or area source of HAP emissions</u>	<u>Y</u>	
<u>63.6585(a)</u>	<u>Definition: stationary RICE</u>	<u>Y</u>	
<u>63.6585(b)</u>	<u>Definition: major source of HAPs</u>	<u>Y</u>	
<u>63.6590</u>	<u>Affected sources</u>	<u>Y</u>	
<u>63.6590(a)</u>	<u>Affected source is any existing, new, or reconstructed stationary RICE</u>	<u>Y</u>	
<u>63.6590(a)(1)</u>	<u>An existing stationary RICE (at a major source of HAPs) is:</u>	<u>Y</u>	
<u>63.6590(a)(1)(i)</u>	<u>>500 bhp if commenced construction before December 19, 2002</u>	<u>Y</u>	
<u>63.6590(b)</u>	<u>Stationary RICE subject to limited requirements</u>	<u>Y</u>	
<u>63.6590(b)(3)</u>	<u>Exempt from requirements of Subpart ZZZZ, including initial notification requirements: Existing SI 2SLB > 500 bhp</u>	<u>Y</u>	

Table IV – AHC.3.3
Source-specific Applicable Requirements

S955-INTERNAL COMBUSTION ENGINE, S956-INTERNAL COMBUSTION ENGINE, S957-INTERNAL COMBUSTION ENGINE, S958-INTERNAL COMBUSTION ENGINE, S959-INTERNAL COMBUSTION ENGINE, S960-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 2-STROKE LEAN BURN ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition-# 13509			
Part 1	Requirement to fire only natural gas (basis: toxics)	Y	
Part 2	Limitation on NOx emissions (basis: Regulation 9-8)	Y	
Part 3	Limitation on CO emissions (basis: Regulation 9-8)	Y	
Part 4	Record Keeping (basis: Regulation 9-8)	Y	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
Part 7	Source test twice per year	Y	

Table IV – DdC.3.4
Source-specific Applicable Requirements

S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
6-1-303	<u>Ringelmann Number 2 Limitation</u>	N	
6-1-303.1	<u>Ringelmann Number 2 Limitation For emergency standby engines</u>	N	
6-1-305	<u>Visible Particles</u>	N	

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	<u>Particulate Weight Limitation</u>	<u>N</u>	
6-1-401	<u>Appearance of Emissions</u>	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIPBAAQMD Regulation 6	Particulate Matter and Visible Emissions (09/04/199812/19/90)		
6-301	<u>Ringelmann Number 1 Limitation</u>	<u>N</u>	
6-303	<u>Ringelmann Number 2 Limitation</u>	<u>Y</u>	
6-303.1	<u>Ringelmann Number 2 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995); SIP approved 5/20/92)		
9-1-301	<u>Limitations on Ground Level Concentrations</u>	<u>N</u>	
9-1-304	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/9307/25/2007)		
9-8-110	<u>Exemptions</u>	<u>N</u>	
9-8-110.5	<u>Exemption emergency standby engines</u>	<u>N</u>	
9-8-330	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
9-8-330.1	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
9-8-330.2	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
9-8-330.3	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	<u>1/1/2012</u>
9-8-502	<u>Recordkeeping</u>	<u>N</u>	
9-8-502.1	<u>Monthly records of usage</u>	<u>N</u>	
9-8-530	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
9-8-530.1	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
9-8-530.2	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
9-8-530.23	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
CARB ATCM	<u>Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005)</u>	<u>N</u>	
93115.1	<u>Purpose</u>	<u>N</u>	

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL-AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL-LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL-TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL-TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL-TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.2	Applicability	<u>N</u>	
93115.3	Exemptions	<u>N</u>	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements	<u>N</u>	
93115.4	Definitions	<u>N</u>	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	<u>N</u>	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	<u>N</u>	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (↔ bhp)	<u>N</u>	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	<u>N</u>	
93115.5(b)(1)	Must use CARB Diesel Fuel	<u>N</u>	
93115.10	Recordkeeping, Reporting and Monitoring	<u>N</u>	
93115.10(d)	Notification of Loss of Exemption	<u>N</u>	
93115.10(d)(1)	Notification of Loss of Exemption – In-use engines	<u>N</u>	
93115.10(d)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	<u>N</u>	
93115.10(e)	Monitoring equipment	<u>N</u>	
93115.10(e)(1)	Non resettable hour meter	<u>N</u>	
93115.10(e)(3)	District may require additional monitoring	<u>N</u>	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	<u>N</u>	
93115.10(g)(1)	Records and monthly summary required	<u>N</u>	
93115.10(g)(2)	Record retention	<u>N</u>	
93115.15	Severability	<u>N</u>	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for Existing Emergency Stationary RICE <= 500 bhp		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	<u>Y</u>	
63.6585(a)	Definition: stationary RICE	<u>Y</u>	
63.6585(b)	Definition: major source of HAPs	<u>Y</u>	
63.6590	Affected sources	<u>Y</u>	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	<u>Y</u>	
63.6590(a)(1)	An existing stationary RICE(at a major source of HAPs):	<u>Y</u>	
63.6590(a)(1)(i)	<= 500 bhp if commenced construction before June 12, 2006	<u>Y</u>	

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6595	Compliance Dates	Y	
63.6595(a)	Affected Sources	Y	
63.6595(a)(1)	Existing stationary CI RICE with a site rating <= 500 bhp located at a major source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.	Y	5/3/2013
63.6595(c)	Meet the notification requirements in 63.6645 and 40 CFR 63 Subpart A	Y	5/3/2013
63.6602	Emission limitations for existing stationary CI RICE <= 500 bhp – Comply with Table 2c.	Y	5/3/2013
63.6605	General compliance requirements	Y	5/3/2013
63.6605(a)	Comply with applicable requirements at all times	Y	5/3/2013
63.6605(b)	Operate at all times in a manner consistent with safety and good air pollution control practices.	Y	5/3/2013
63.6625	Monitoring, installation, collection, operation, and maintenance requirements for existing emergency stationary RICE not subject to numerical standards	Y	5/3/2013
63.6625(e)	Maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan that requires (to the extent practical) the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	Y	5/3/2013
63.6625(f)	Existing emergency stationary RICE <= 500 bhp at major source must install non-resettable hour meter	Y	5/3/2013
63.6625(h)	Minimize time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c, apply.	Y	5/3/2013
63.6625(i)	Optional oil analysis program to extend the specified oil change requirement in Table 2c, item 1 for emergency CI RICE < 500 bhp at major source. Include analysis program in Maintenance Plan. Keep records of the parameters analyzed, analytical results, and oil changes for the engine.	Y	5/3/2013
63.6640	Continuous Compliance Requirements	Y	5/3/2013
63.6640(a)	Comply with applicable emission limitations and operating limitations in Table 2c according to Table 6 [Option 9 for existing stationary CI RICE not subject to any numerical emission standards]	Y	5/3/2013

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6640(b)	Report each instance of failure to meet each applicable emission limitation and operating limitation in Table 2c as deviations per the reporting requirements in 63.6650	Y	5/3/2013
63.6640(e)	Exemption from Table 8	Y	5/3/2013
63.6640(f)	Operating requirements for existing emergency stationary RICE <= 500 bhp at major source:	Y	5/3/2013
63.6640(f)(1)	Any operation of emergency engines other than for emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year is prohibited.	Y	5/3/2013
63.6640(f)(2)	No time limit for emergency stationary RICE in emergency situations	Y	5/3/2013
63.6640(f)(3)	Operation for maintenance checks and readiness testing is permitted if the tests are recommended by Federal, State or local government, the manufacturer, vendor, or insurance company associated with engine. Maintenance checks and readiness testing is limited to 100 hours per year. Can operate beyond 100 hours per year if required by Federal, State, or local standards or if approval is requested and received.	Y	5/3/2013
63.6640(f)(4)	Operation in non-emergency situations limited to 50 hours per year, but the 50 hours count toward the 100 hours per year for maintenance and testing. Cannot be used for peak shaving or to generate income by supplying power, but can operate up to 15 hours per year as part of demand response program, subject to certain restrictions. The 15 hours count toward the 50 hour/year limit for non-emergency situations.	Y	5/3/2013
63.6645	Notifications	Y	5/3/2013
63.6645(a)(5)	Notifications – Existing stationary emergency CI RICE are not subject to 40 CFR 63 Subpart A notification requirements in 63.6645(a)	Y	5/3/2013
63.6650	Reports	Y	5/3/2013
63.6650(a)	Submit applicable reports in Table 7	Y	5/3/2013
63.6650(b)	Report submittal dates	Y	5/3/2013
63.6650(c)	Report contents	Y	5/3/2013
63.6650(d)	Report contents – deviations for sources without CMS	Y	5/3/2013
63.6650(f)	Report requirements for Title V permitted sources	Y	5/3/2013
63.6655	Recordkeeping	Y	5/3/2013
63.6655(d)	Recordkeeping – comply with Table 6	Y	5/3/2013
63.6655(e)	Recordkeeping – maintenance records	Y	5/3/2013

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6655(e)(2)	Existing stationary emergency CI RICE	Y	5/3/2013
63.6655(f)	Hours of operation from non-resettable hour meter for various modes of operation	Y	5/3/2013
63.6655(f)(1)	Existing stationary emergency CI RICE	Y	5/3/2013
63.6660	Record format and retention	Y	5/3/2013
63.6660(a)	Record format	Y	5/3/2013
63.6660(b)	Record retention period - 5 years	Y	5/3/2013
63.6660(c)	Record format and retention— hard copy or electronic for 5 years	Y	5/3/2013
Table 2c	Option 1: Emergency CI normal operation – Items 1a, 1b, and 1c can be delayed if engine cannot be shutdown during an emergency [can petition for alternative workpractices]	Y	5/3/2013
Table 6	Option 9: Continuous compliance for existing stationary CI RICE not subject to any numerical emission standards	Y	5/3/2013
Table 7	Reports	Y	5/3/2013
BAAQMD Condition # 18946	S1469, S1471, S1472, S1474, S1477, and S1486 only		
Part 1	Hours of operation limit for reliability related activities (basis: Regulation 9-8-330)	N	
Part 2	Emergency use (basis: Regulation 9-8-231)	N	
Part 3	Reliability related activities (basis: Regulation 9-8-232)	N	
Part 4	Monitoring (basis: Regulation 9-8-530)	N	
Part 5	Recordkeeping (basis: Regulation 9-8-530, 1-441)	N	
BAAQMD Condition # 18947	S1475 and S1476 only		
Part 1	Portability Requirements (basis: Regulation 2-1-220)	N	
Part 2	Fixed location requirements (basis: Regulation 2-1-220)	N	
Part 3	Reporting violation of parts 1 and/or 2 to Compliance and Enforcement (basis: compliance verification)	N	
Part 4	Fuel limit (basis: cumulative increase)	N	
Part 5	Hour limit (basis: cumulative increase)	N	
Part 6	Fuel requirements (basis: cumulative increase)	N	
Part 7	Ringelmann 1 or 20% opacity limitation (basis: Regulation 6)	N	
Part 8	Public Nuisance (basis: Regulation 6)	N	

**Table IV – DdC.3.4
 Source-specific Applicable Requirements**

~~S1469 EMERGENCY STANDBY DIESEL AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9	No operation within 1000 feet of a school without an application (basis: Regulation 2-1-412)	N	
Part 10	Recordkeeping (basis: recordkeeping)	N	
Part 11	Three day advance notice before <u>non-emergency</u> operation in a new location (basis: reporting)	N	
Part 12	Year end summary/report (basis: reporting)	N	
<u>BAAQMD Condition 22851</u>			
<u>Part 1</u>	Hours of operation limit for <u>NFPA 25</u> reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
<u>Part 2</u>	<u>Emergency Allowable</u> use [basis: BAAQMD Regulation 9-8-330]	N	
<u>Part 3</u>	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)]	N	
<u>Part 4</u>	Recordkeeping [basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)]	N	

**Table IV – DdC.3.5
 Source-specific Applicable Requirements
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann Number 1 Limitation (S1488)</u>	N	
6-1-303	Ringelmann Number 2 Limitation (S1487)	N	
6-1-303.1	<u>Ringelmann Number 2 Limitation (S1487) For Emergency Standby Engines</u>	N	
6-1-305	<u>Visible Particles</u>	N	

**Table IV – ~~Da~~C.3.5
 Source-specific Applicable Requirements
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	<u>Particulate Weight Limitation</u>	<u>N</u>	
6-1-401	<u>Appearance of Emissions</u>	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP BAAQMD Regulation 6	Particulate Matter and Visible Emissions (09/04/199812/19/90)		
6-301	Ringelmann Number 1 Limitation (S1488)	Y	
6-303	Ringelmann Number 2 Limitation (S1487)	<u>Y</u>	
6-303.1	<u>Ringelmann Number 2 Limitation (S1487) For Emergency Standby Engines</u>	<u>Y</u>	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995) (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 07/25/2007)		
9-8-110	<u>Exemptions</u>	<u>N</u>	
9-8-110.5	<u>Emergency Standby Engines</u>	<u>N</u>	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
9-8-330.2	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
9-8-330.3	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	1/1/2012
9-8-502	<u>Recordkeeping</u>	<u>N</u>	
9-8-502.1	<u>Monthly records of usage</u>	<u>N</u>	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
9-8-530.2	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
9-8-530.3	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
CARB ATCMCCR, Title 17, Section 93115	<u>Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005) ATCM for Stationary Compression Ignition Engines</u>	<u>N</u>	
93115.1	<u>Purpose</u>	<u>N</u>	
93115.2	<u>Applicability</u>	<u>N</u>	
93115.3	<u>Exemptions (S-1487 only)</u>	<u>N</u>	
93115.3(n)	<u>Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours</u>	<u>N</u>	

Table IV – DaC.3.5
Source-specific Applicable Requirements
S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,
S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>necessary to comply with NFPA 25 testing requirements (S-1487 only)</u>		
<u>93115.4</u>	<u>Definitions</u>	<u>N</u>	
<u>93115.4(41)</u>	<u>"In-Use" means a CI engine that is not a "new" CI engine</u>	<u>N</u>	
<u>93115.4(50)</u>	<u>New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005</u>	<u>N</u>	
<u>93115.5</u>	<u>Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (≥ bhp)</u>	<u>N</u>	
<u>93115.5(b)</u>	<u>Fuel requirements for in-sue emergency standby stationary diesel-fueled CI engines</u>	<u>N</u>	
<u>93115.5(b)(1)</u>	<u>Must use CARB Diesel Fuel</u>	<u>N</u>	
<u>93115.6</u>	<u>ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)</u>	<u>In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)</u>	<u>Emission and operation standards (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)(A)</u>	<u>Diesel PM Standard and Hours of Operation Limitations (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)</u>	<u>General Requirements (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)(b)</u>	<u>Operating for maintenance and testing limited to 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(2)</u>	<u>Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr (S-1488 only)</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(2)(b)</u>	<u>Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate < 0.15 g/bhp-hr (S-1488 only)</u>	<u>N</u>	
<u>93115.10</u>	<u>ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements (S-1488 only)</u>	<u>N</u>	
<u>93115.10(d)</u>	<u>Notification of Loss of Exemption</u>	<u>N</u>	
<u>93115.10(d)(1)</u>	<u>Notification of Loss of Exemption – In-use engines</u>	<u>N</u>	
<u>93115.10(d)(1)(A)</u>	<u>Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies</u>	<u>N</u>	

**Table IV – ~~Da~~C.3.5
 Source-specific Applicable Requirements
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(e)	<u>Monitoring Equipment</u> (S-1488 only)	<u>N</u>	
93115.10(e)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	<u>N</u>	
<u>93115.10(e)(3)</u>	<u>District may require additional monitoring</u>	<u>N</u>	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	<u>N</u>	
<u>93115.10(g)(1)</u>	<u>Records and monthly summary required</u>	<u>N</u>	
<u>93115.10(g)(2)</u>	<u>Record retention</u>	<u>N</u>	
93115.15	Severability	<u>N</u>	
40 CFR 63 Subpart ZZZZ	<u>NESHAPS for Stationary Reciprocating Internal Combustion Engines (4/18/2008/3/2010)</u> <u>Requirements for New Emergency Stationary RICE > 500 bhp(S-1488 only)</u>		
<u>63.6585</u>	<u>Applicability: stationary RICE at a major or area source of HAP emissions</u>	<u>Y</u>	
<u>63.6585(a)</u>	<u>Definition: stationary RICE</u> Applicable to stationary RICE; and	<u>Y</u>	
<u>63.6585(b)</u>	<u>Definition: major source of HAPs</u> Applicable to major source of HAPs	<u>Y</u>	
<u>63.6590</u>	<u>Affected sources</u>	<u>Y</u>	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	<u>Y</u>	
63.6590(a)(2)	A New stationary RICE is:	<u>Y</u>	
63.6590(a)(2)(i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	<u>Y</u>	
63.6590(b)(1)	Stationary RICE subject to limited requirements must only meet initial notification requirements of 63.6645(fb) if	<u>Y</u>	
63.6590(b)(1)(i)	the stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	<u>Y</u>	
<u>63.6645</u>	<u>Notifications</u>	<u>Y</u>	
<u>63.6645(f)</u>	<u>Initial notification requirement when no other requirements apply</u>	<u>Y</u>	
BAAQMD Condition # 20672	S-1487: Parts A5, A6, and A81 through A-9 S-1488: Parts B5, B6, B7, and B91 through B-10		
Part A1	Hours of operation limit for reliability related activities (basis: Regulation 9-8-330)	<u>N</u>	
Part A2	Emergency use (basis: Regulation 9-8-231)	<u>N</u>	
Part A3	Reliability related activities (basis: Regulation 9-8-232)	<u>N</u>	
Part A4	Monitoring (basis: Regulation 9-8-530)	<u>N</u>	
Part A5	NOx limit of 9.65 g/bhp-hr (basis: BACT)	<u>Y</u>	
Part A6	CO limit of 1.71 g/bhp-hr (basis: BACT)	<u>Y</u>	
Part A7	Recordkeeping (basis: Regulation 9-8-530, 1-441)	<u>N</u>	
Part A8	Fuel requirements (basis: BACT)	<u>Y</u>	
Part A9	Startup Source Test Requirements	<u>Y</u>	
Part B1	Hours of operation limit for reliability related activities (basis: Regulation 9-8-330)	<u>N</u>	

Table IV – ~~Da~~C.3.5
Source-specific Applicable Requirements
S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,
S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B2	Emergency use (basis: Regulation 9-8-231)	N	
Part B3	Reliability related activities (basis: Regulation 9-8-232)	N	
Part B4	Monitoring (basis: Regulation 9-8-530)	N	
Part B5	NOx limit of 8.0 g/bhp-hr (basis: BACT)	Y	
Part B6	CO limit of 1.15 g/bhp-hr (basis: BACT)	Y	
Part B7	PM10 limit of 0.22 g/bhp-hr (basis: BACT)	Y	
Part B8	Recordkeeping (basis: Regulation 9-8-530, 1-441)	N	
Part B9	Fuel requirements (basis: BACT)	Y	
Part B10	Startup-Source Test Requirements	N	
<u>BAAQMD Condition 22851</u>			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Emergency Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)]	N	
Part 4	Recordkeeping [basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)]	N	

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 6 Rule 1</u>	Particulate Matter; General Requirements (12/05/2007)		
6-1-304.3	Ringelmann Number 2+ Limitation	N	
6-1-303.1	Ringelmann Number 2 Limitation For emergency Standby Engines	N	
6-1-303.1	Ringelmann Number 2 Limitation	N	

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-305	Visible Particles	<u>N</u>	
6-1-310	Particulate Weight Limitation	<u>N</u>	
6-1-401	Appearance of Emissions	<u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
SIPBAAQMD Regulation 6	Particulate Matter and Visible Emissions (09/04/199812/19/90)		
6-304	Ringelmann Number 1 Limitation	Y	
6-303	Ringelmann Number 2 Limitation	<u>Y</u>	
6-303.1	For emergency Standby Engines Ringelmann Number 2 Limitation	<u>Y</u>	
6-305	Visible Particles	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-401	Appearance of Emissions	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995); SIP approved 5/20/92)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>Y</u>	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/200407/25/2007)		
9-8-110	Exemptions	<u>N</u>	
9-8-110.54	Exemption, Emergency Standby Engines	<u>N</u>	
9-8-330	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-330.1	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-330.2	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-330.3	Emergency Standby Engines, Hours of Operation	<u>N</u>	<u>1/1/2012</u>
9-8-502	Recordkeeping	<u>N</u>	
9-8-502.1	Monthly records of usage	<u>N</u>	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	<u>N</u>	
CARB ATCMCCR, Title 17, Section 93115	Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations – Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005) ATCM for Stationary Compression Ignition Engines		
93115.1	Purpose	<u>N</u>	
93115.2	Applicability	<u>N</u>	

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.4	Definitions	<u>N</u>	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	<u>N</u>	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	<u>N</u>	
93115.5(a)93115.5(b)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements Fuel requirements for in-use emergency standby stationary diesel fueled CI engines	<u>N</u>	
93115.5(a)(1)93115.5(b)(1)	Must use CARB Diesel Fuel	<u>N</u>	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	<u>N</u>	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	<u>N</u>	
93115.6(a)(3)	New Engines	<u>N</u>	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	<u>N</u>	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	<u>N</u>	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	<u>N</u>	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	<u>N</u>	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	<u>N</u>	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	<u>N</u>	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards.	<u>N</u>	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	<u>N</u>	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 83115.6(a)(4)	<u>N</u>	
93115.6(a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	<u>N</u>	
93115.6(a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	<u>N</u>	
93115.6(a)(4)(A)(1)(a)	Compliance schedule for 13 CCR 2423 Tier 2, Tier 3, and Tier 4 standards	<u>N</u>	

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(4)(A)(1)(b)	<u>Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation</u>	<u>N</u>	
93115.6(a)(4)(B)	<u>New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards</u>	<u>N</u>	
93115.6(b)	<u>In Use Emergency Standby Diesel Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
93115.6(b)(3)	<u>Emission and operation standards</u>	<u>N</u>	
93115.6(b)(3)(A)	<u>Diesel PM Standard and Hours of Operation Limitations</u>	<u>N</u>	
93115.6(b)(3)(A)(1)	<u>General Requirements</u>	<u>N</u>	
93115.6(b)(3)(A)(1)(b)	<u>Operating for maintenance and testing limited to 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing</u>	<u>N</u>	
93115.6(b)(3)(A)(2)	<u>Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr</u>	<u>N</u>	
93115.6(b)(3)(A)(2)(b)	<u>Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate < 0.15 g/bhp-hr</u>	<u>N</u>	
93115.10	<u>ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements</u>	<u>N</u>	
93115.10(e)	<u>Monitoring Equipment</u>	<u>N</u>	
93115.10(e)(1)	<u>Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)</u>	<u>N</u>	
93115.10(e)(3)	<u>District may require additional monitoring</u>	<u>N</u>	
93115.10(g)	<u>Reporting Requirements for Emergency Standby Engines</u>	<u>N</u>	
93115.15	<u>Severability</u>	<u>N</u>	
40 CFR 60 Subpart III	<u>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)</u>		
60.4200	<u>Applicability</u>	<u>Y</u>	
60.4200(a)	<u>Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)</u>	<u>Y</u>	
60.4200(a)(2)	<u>Stationary CI ICE that were constructed after 7/11/2005 where</u>	<u>Y</u>	
60.4200(a)(2)(ii)	<u>Manufactured as a certified NFPA fire pump engine after 7/1/2006</u>	<u>Y</u>	
60.4205	<u>Emission standards for emergency stationary CI ICE</u>	<u>Y</u>	
60.4205(c)	<u>Fire pump engines with displacement less than 30 l per cylinder must meet emission standards in Table 4 for all pollutants</u>	<u>Y</u>	
60.4206	<u>Meet Table 4 emission standards for the life of the engine</u>	<u>Y</u>	
60.4207	<u>Fuel requirements for stationary CI ICE</u>	<u>Y</u>	
60.4207(a)	<u>Use diesel fuel that meets the requirements of 40 CFR 80.510(a)</u>	<u>Y</u>	
60.4207(b)	<u>Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for</u>	<u>Y</u>	<u>10/1/2010</u>

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>nonroad diesel fuel</u>		
60.4207(c)	<u>Option to petition EPA to use remaining non-compliant fuel</u>	<u>Y</u>	
60.4209	<u>Monitoring requirements for stationary CI ICE</u>	<u>Y</u>	
60.4209(a)	<u>Install a non-resettable hour meter prior to the startup of an emergency engine</u>	<u>Y</u>	
60.4209(b)	<u>Diesel particulate filter must be installed with backpressure monitor to indicate when the high backpressure limit of the engine is approached</u>	<u>Y</u>	
60.4211(a)	<u>Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.</u>	<u>Y</u>	
60.4211(e)	<u>Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.</u>	<u>Y</u>	
60.4212	<u>Compliance requirements for stationary compression ignition ICE</u>	<u>Y</u>	
60.4214	<u>Notification, reporting, and recordkeeping requirements for stationary CI ICE</u>	<u>Y</u>	
60.4214(b)	<u>Initial notification is not required for emergency engines.</u>	<u>Y</u>	
60.4124(c)	<u>Maintain records of any corrective action taken if backpressure monitor indicates that high backpressure limit has been approached</u>	<u>Y</u>	
40 CFR 63 Subpart ZZZZ	<u>NESHAPS for Stationary Reciprocating Internal Combustion Engines (1/18/2008/3/2010)</u>		
63.6585	<u>Applicability stationary RICE at a major or area source of HAP emissions</u>	<u>Y</u>	
63.6585(a)	<u>Definition: stationary RICE</u> Applicable to stationary RICE; and	<u>Y</u>	
63.6585(b)	<u>Definition: major source of HAPs</u> Applicable to major source of HAPs	<u>Y</u>	
63.6590	<u>Affected sources</u>	<u>Y</u>	
63.6590(a)	<u>Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions</u>	<u>Y</u>	
63.6590(a)(2)	<u>A New stationary RICE is;</u>	<u>Y</u>	
63.6590(a)(2)(ii)	<u>Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006</u>	<u>Y</u>	
63.6590(c)	<u>New Emergency Stationary RICE <= 500 bhp are subject only to 40 CFR 60 Subpart III for compression ignition engines</u> Stationary RICE subject to 40 CFR 60 Subpart III for compression ignition engines because it is an emergency RICE with < 500 bhp	<u>Y</u>	
BAAQMD Condition # 23811			

Table IV – C.3.67
Source-specific Applicable Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,
S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b) and Section 93115.6(a)(3)(A)1c] Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)]	Y N	
Part 2	Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.4(29)6(b)(3)(A)(2)(b)] Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3), Regulation 9-8-330]	Y N	
Part 3	Totalizing Meter [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(e)(1)] Totalizing Meter [Basis: “Stationary Diesel Engine ATCM” section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(g)] Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I) or Regulation 2-6-501]	Y N	

SECTION C.4 COMBUSTION - PROCESS HEATERS AND FURNACES

Table IV – AAC.4.1
Source-specific Applicable Requirements
S902-FCC START –UP HEATER, S905 No. 6 BOILER STACK HEATER, S923-COKER
AUXILIARY BURNER
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		12/31/2010 (S902)
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	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (06/28/1999)		12/31/2010 (S902)
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (12/05/2007) and Visible Emissions (12/19/90)		
6-1-301	Ringelmann No. 1 Limitation	Y <u>N</u>	
6-1-305	Visible Particles	Y <u>N</u>	
6-1-310	Particle Weight Limitation	Y <u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		

Table IV – AAC.4.1
Source-specific Applicable Requirements
S902-FCC START –UP HEATER, S905 No. 6 BOILER STACK HEATER, S923-COKER
AUXILIARY BURNER
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particle Weight Limitation</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 10 Subpart A	<u>Standards of Performance for New Stationary Sources NSPS Incorporation by Reference, General Provisions incorporated by reference (02/16/2000)</u>		<u>12/31/2010</u> <u>(S902)</u>
10-14	<u>Subpart J – Standards of Performance for Petroleum Refineries</u>	<u>Y</u>	
BAAQMD Manual of Procedures, Volume V	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	<u>12/31/2010</u> <u>(S902)</u>
BAAQMD Regulation 10 Subpart J	<u>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</u>		<u>12/31/2010</u> <u>(S902)</u>
BAAQMD Regulation 9, Rule 1	<u>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)</u>		
9-1-110	<u>Conditional Exemption, Area Monitoring</u>	<u>Y</u>	
NSPS 40 CFR 60 Subpart A	<u>General Provisions (8/18/2001)</u>	<u>Y</u>	<u>12/31/2010</u> <u>(S902)</u>
60.7	<u>Notification and recordkeeping</u>	<u>Y</u>	
60.8	<u>Performance tests</u>	<u>Y</u>	
60.9	<u>Availability of Information</u>	<u>Y</u>	
60.11	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
60.11(a)	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
60.11(d)	<u>Good Operating Practice</u>	<u>Y</u>	
60.12	<u>Circumvention</u>	<u>Y</u>	
60.13	<u>Monitoring requirements</u>	<u>Y</u>	
NSPS 40 CFR 60 Subpart J	<u>NSPS - Standards of Performance for Petroleum Refineries (10/17/2000) (6/24/2008)</u> <u>Applicability specified in Condition 23562</u>	<u>Y</u>	<u>12/31/2010</u> <u>(S902)</u>
60.104	<u>Standards for sulfur oxides</u>	<u>Y</u>	

Table IV – AAC.4.1
Source-specific Applicable Requirements
S902-FCC START –UP HEATER, S905 No. 6 BOILER STACK HEATER, S923-COKER
AUXILIARY BURNER

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	— monitoring Monitoring requirements 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	
<u>60.105(a)(4)(i)</u>	<u>Span value for H2S monitoring is 425 mg/dscm H2S</u>	<u>Y</u>	
<u>60.105(a)(4)(ii)</u>	<u>Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location</u>	<u>Y</u>	
<u>60.105(a)(4)(iii)</u>	<u>Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations</u>	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semiannual reporting</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of semiannual report</u>	<u>Y</u>	
NSPS Title 40 Part CFR 60 Appendix B	NSPS - Title 40 Part 60 Appendix B – Performance Specifications (01/12/200410/17/2000)		12/31/2010 (S902)
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part CFR 60 –Appendix F	NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/200406/13/2007)		12/31/2010 (S902)
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403	Y	

Table IV – AAC.4.1
Source-specific Applicable Requirements
S902-FCC START –UP HEATER, S905 No. 6 BOILER STACK HEATER, S923-COKER
AUXILIARY BURNER
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Regulation 2-6-503)		
BAAQMD Condition-# 23562			12/31/2010 (S902)
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	12/31/2010 (S902)

Table IV – AabC.4.2
Source-specific Applicable Requirements
S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13
FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-
No. 21 FURNACE, S922-No. 22 FURNACE, S924-No. 24 FURNACE, S926-No. 26 FURNACE,
S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30
FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-
No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE,
S950-No. 50 FURNACE
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV -- ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (@7/19/2006) Applies to all sources		12/31/2010 (S908, S909, S912, S913)
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations <u>10, 12 and 2-1-403</u>	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (@6/28/1999)		12/31/2010 (S908, S909, S912, S913)
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	

Table IV -- ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE~~, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, ~~S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (12/07/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
BAAQMD-SIP Regulation 6	Particulate Matter and Visible Emissions (12/19/99/04/1998)		
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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants -- Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants -- Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94/07/17/2002)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.1	...Start up/Shutdown Contribution	N	
9-10-301.2	...Out of Service Units Contribution	N	
9-10-301.3	...Test firing on Non-gaseous fuel Contribution	N	
9-10-302	Interim Facility-wide NOx emission rate limit	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring <u>for sources subject to 9-10-301, 303, 304, and 305</u>	<u>N</u>	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y N	
9-10-504	Recordkeeping	N	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303</u>	<u>N</u>	
9-10-505	Reporting <u>for sources subject to 9-10-301, 303, 304, 305, and/or 306</u>	N	
<u>9-10-601</u>	<u>Determination of Nitrogen Oxides</u>	<u>Y</u>	
<u>9-10-602</u>	<u>Determination of Carbon Monoxide and Stack-Gas Oxygen</u>	<u>N</u>	
<u>9-10-603</u>	<u>Compliance Determination</u>	<u>Y</u>	
<u>9-10-604</u>	<u>Determination of Higher Heating Value</u>	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/9404/12/2008)		
9-10-502	Monitoring <u>for sources subject to 9-10-303</u>	Y	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	
<u>9-10-505</u>	<u>Reporting requirements for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	
BAAQMD Regulation 10 Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)		12/31/2010 (S908, S909, S912, S913)
BAAQMD Regulation 10 Subpart J	<u>Standards of Performance for New Stationary Sources incorporated by reference NSPS Incorporation by Reference, Petroleum Refineries(02/16/2000)</u>		12/31/2010 (S908, S909, S912, S913)
10-14	Subpart J – Standards of Performance for Petroleum Refineries	<u>Y</u>	
BAAQMD Manual of Procedures, Volume V	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	12/31/2010 (S908, S909, S912)
NSPS 40 CFR 60 Subpart A	General Provisions (8/27/2001)	Y	12/31/2010 (S908, S909, S912, S913)
60.7	Notification and recordkeeping	Y	
60.8	Performance tests	Y	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.9	Availability of Information	N	
60.11	Compliance with standards and maintenance requirements	N	
60.11(a)	Compliance with standards and maintenance requirements	N	
60.11(d)	Good Operating Practice	N	
60.12	Circumvention	N	
60.13	Monitoring requirements	N	
NSPS 40 CFR 60 Subpart J	NSPS – Standards of Performance for Petroleum Refineries (40/17/200006/24/2008) <u>Applicability specified in Condition 23562</u>	N	12/31/2010 (S908, S909, S912, S913)
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	monitoring 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	
<u>60.105(a)(4)(i)</u>	<u>Span value for H2S monitoring is 425 mg/dscm H2S</u>	<u>Y</u>	
<u>60.105(a)(4)(ii)</u>	<u>Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location</u>	<u>Y</u>	
<u>60.105(a)(4)(iii)</u>	<u>Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations</u>	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semiannual reporting</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of semiannual report</u>	<u>Y</u>	

**Table IV – ~~Aab~~C.4.2
 Source-specific Applicable Requirements**

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part CFR 60 Appendix B	NSPS <u>Title 40 Part 60 Appendix B – Performance Specifications (10/17/200001/12/2004)</u>		<u>12/31/2010 (S908, S909, S912)</u>
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part CFR 60 -Appendix F	NSPS – <u>Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/200701/12/2004)</u>		<u>12/31/2010 (S908, S909, S912)</u>
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
NSPS 40 CFR 61 Subpart FF	NESHAP for Benzene Waste Operations <u>Applies to S950 only</u>	Y	
40 CFR 61.349	Standards: Closed vent systems and control devices (For S950 No. 50 Furnace only)	Y	
40 CFR 61.349(a)(1)(i)	Fugitives: Closed vent system to operate with no detectable emissions as indicated by instrument reading of less than 500 ppmv as per method in 61.355(h)	Y	
40 CFR 61.349(a)(1)(ii)	Closed Vent System Gauging and Sampling Devices	Y	
40 CFR 61.349(a)(1)(iv)	Closed Vent System Devices Venting to Atmosphere	Y	
40 CFR 61.349(a)(2)(i)	Combustion Device Design	Y	
40 CFR 61.349(a)(2)(i)(A)	Reduce organic emissions by 95 weight percent or greater	Y	
40 CFR 61.349(a)(2)(i)(B)	Achieve a total organic compound concentration of 20 ppmv (Method 18) on a dry basis corrected to 3 percent oxygen or	Y	
40 CFR 61.349(a)(2)(i)(C)	Provide a minimum residence time of 0.5 seconds at a minimum temperature of 760C (1400F). If a boiler or process heater is used as the control device, then the vent stream shall be introduced into the flame zone.	Y	
40 CFR 61.349(a)(2)(ii)	Vapor Recovery Efficiency of carbon adsorption or condenser shall recover or control organic emissions with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of	Y	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE~~, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	98 weight percent or greater.		
40 CFR 61.349(b)	Control Device Operation	Y	
40 CFR 61.349(e)	Control Device Compliance Demonstration	Y	
40 CFR 61.349(e)(1)	Control Device Engineering Calculations	Y	
40 CFR 61.349(e)(2)	Control Device Performance Tests	Y	
40 CFR 61.349(e)	Control Device: Administrator may request demonstration of applicable conditions in (a)(2) of this section by conducting a performance test using test methods and procedures in 61.355, and for control devices subject to (a)(2)(iv) of this section, the Administrator may specify alternative test methods and procedures, as appropriate.	Y	
40 CFR 61.349(f)	Quarterly Visual Inspection of Closed Vent System and Control Device	Y	
40 CFR 61.349(g)	Closed Vent System Repair	Y	
40 CFR 61.349(h)	Monitoring of control device used to comply with this section in accordance with 61.354(e).	Y	
<u>BAAQMD Condition 677</u>	For S937 Only		
Part 1	<u>NOx emissions, calculated as NO2, must not exceed 1,430 lb/stream day or 1,089 lb/calendar day (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)</u>	<u>Y</u>	
Part 2	<u>NOx/O2 CEM requirement (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)</u>	<u>Y</u>	
Part 3	<u>Recordkeeping</u>	<u>Y</u>	
<u>BAAQMD Condition # 4357</u>			
Part 1	<u>Definitions (basis: definitions)</u>	Y	
Part 2	<u>Emissions (basis: cumulative increase, bubble, BACT)</u>	Y	
Part 3	<u>Emission Reductions (basis: cumulative increase, bubble, BACT, offsets)</u>	Y	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 5	Reporting and Recordkeeping (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
<u>BAAQMD Condition # 7410</u>	For S-950 Only		
Part 3	Limit on non-methane hydrocarbon emissions (basis: cumulative increase)	Y	
Part 4	Limit on hydrogen sulfide emissions (basis: toxics)	N	
Part 5	Minimum S950 operating temperature when abating S606 and/or S607 (basis: cumulative increase)	Y	
Part 6	Record keeping for operating temperature (basis: cumulative increase)	Y	
Part 7	Record keeping (basis: cumulative increase)	Y	
<u>BAAQMD Condition 8077</u>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4B	Monitoring – NOx/O2 CEM (basis: cumulative increase, offsets) (S-908, S-922 S-934, and S-935 only)	Y	
Part B4C	Monitoring – Fuel Usage (basis: cumulative increase, offsets)	Y	

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Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE~~, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, ~~S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part B4D</u>	<u>Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)</u> <u>(All except for S-915, S-926, and S-927)</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Record Keeping (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B7A</u>	<u>NOx, CO emission limits (basis: cumulative increase, offsets, BACT)</u> <u>(S-908, S-922, S-927, S-934, and S-935 only)</u>	<u>Y</u>	
<u>Part B7C</u>	<u>NOx emissions < 160 lb/BBtu (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B7D</u>	<u>NOx and CO Source Tests Requirements (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition 12016</u>	<u>For S-937 Only</u>		

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Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9.2	Recordkeeping and monthly reporting requirements	Y	
Part 9.11.3	CAP NOx limit adjustment basis	Y	
BAAQMD Condition # 16685			
Part 1	Daily Firing rate limitations (basis: cumulative increase, , Regulation 2-1-403, Bubble Condition 4357/8077 for S917 via Application 19647)	Y	
Part 2	Fuel Use Record Keeping (basis: cumulative increase, Regulation 2-1-403)	Y	
BAAQMD Condition # 18372			
Part 1	District Approved Flowmeter (Regulation 9-10-502.2)	Y	
Part 2	Natural Gas or Refinery Fuel Gas only (Basis: Regulation 9, Rule -10) (S-912, S-913, S-916, S-920, S-921, S-922, S-926, S-927)	Y	
Part 3	Maximum Daily Firing Rate Limit (Regulation 9-10)	Y	
Part 18	S927 to be abated by A1431, Exhaust gas requires NOx, O2, and CO CEMs (Basis: Regulation 9, Rule -10)	Y	
Part 19	S950 to be abated by A1432, A1432 requires CEM (Regulation 9-10)	Y	
Part 22	S927 and S950 ammonia slip limit 20 ppmv (Basis: toxics)	Y	
Part 23	Recordkeeping (Regulation 9-10-504)	Y	
Part 24	Source test Recordkeeping for S-912, S913, S916, S920, S921, S922, S926 (Regulation 9-10)	Y	
Part 25	Fuel Use Recordkeeping for S-912, S913, S916, S920, S921, S922, S926 (Regulation 9-10)		
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10; Daily Firing Rate Limits (basis: Regulation 9-10-301, 303, & 305)	Y	
Part 28	O2 monitor and recorder requirement (basis: Regulation 9-10-502) (All except S-915, S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr)	Y	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE~~, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 29	Operating condition requirements for these sources without a NOx CEM (basis: Regulation 9-10-502) <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	Y	
Part 30	NOx box establishment requirements (basis: Regulation 9-10-502) <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	Y	
Part 31	NOx box ranges (basis: Regulation 9-10-502) <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	Y	
Part 32	NOx Box Deviations (basis: Regulation 9-10-502) <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	Y	
Part 33	Source test requirements (basis: Regulation 9-10-502) <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	Y	
<u>Part 33.A.1</u>	<u>Annual source test</u> <u>(S-915, S-928, S-929, S-930, S-931, S-932, S-933)</u>	<u>Y</u>	
<u>Part 33.A.2</u>	<u>Semiannual source test</u> <u>(S-909, S-912, S-913, S-916, S-920, S-921, S-926)</u>	<u>Y</u>	
<u>Part 33.A.3</u>	<u>Period allowed between source tests</u> <u>(S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)</u>	<u>Y</u>	
<u>Part 33.B</u>	<u>Source test results > NOx box factor</u>	<u>Y</u>	
Part 34	CO source test (basis: Regulation 9-10-502, 1-522) <u>(S-908, S-922, S-934, S-935, S-927, S-937)</u>	Y	
Part 35	CO results requires CEM (basis: Regulation 9-10-502, 1-522) <u>(All except for S-915, S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr and S-927 because it has a CO CEM)</u>	Y	
Part 36	Source test records (basis: recordkeeping; Regulation 9-10-504)	Y	
<u>BAAQMD Condition 18539</u>	<u>S-908 only</u>		

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE~~, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 8</u>	<u>NOx and O2 CEMS requirement (basis: cumulative increase, BACT, offsets)</u>	<u>Y</u>	
<u>Part 16</u>	<u>Ammonia slip limit for A-908 of 20 ppmv. dry at 3% O2 (basis: toxics, cumulative increase, offsets, Bubble Condition 8077 per Application 19647)</u>	<u>Y</u>	
<u>Part 18</u>	<u>Recordkeeping (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part 18A</u>	<u>Annual maximum firing rate (basis: cumulative increase)</u>	<u>Y</u>	
<u>BAAQMD Condition # 19528</u>			
<u>Part 1</u>	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>N</u>	
<u>BAAQMD Condition 20099</u>	<u>(S-908, S-909, S-912, S-913 Only)</u>		
<u>Part 6</u>	<u>40 # fuel gas system destruction efficiency source test of S-532 oil-water separator tank every 5 years in the year prior to 5-year Title V renewal (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)</u>	<u>Y</u>	
<u>BAAQMD Condition 21053</u>	<u>(S-908, S-909, S-912, S-913 Only)</u>		
<u>Part 7</u>	<u>40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (S-908, S-909, S-912, S-913 only)</u>	<u>Y</u>	
<u>BAAQMD Condition 21100</u>	<u>(S-908, S-909, S-912, S-913 Only)</u>		
<u>Part 4</u>	<u>40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (S-908, S-909, S-912, S-913 only) (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)</u>	<u>Y</u>	

Table IV – ~~Aab~~C.4.2
Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY ~~CONSENT DECREE~~ CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #21751	For S-920 No. 2 HDS Charge Heater only Ultra Low Sulfur Diesel Project (startup conditions)		
Part 1	Within 30 days of startup of the Ultra Low Sulfur Diesel Project, provide the District with final fugitive count (basis: cumulative increase, offsets)	Y	
Part 2	If components count differs, reconcile offsets (basis: offsets)	Y	
Part 3	BACT compliant technology for light hydrocarbon service valves, fugitive organics shall not exceed 100 ppm (basis: BACT, Reg. 8-18)	Y	
Part 4	BACT compliant technology for light hydrocarbon service flanges and connectors, fugitive organics shall not exceed 100 ppm (basis: BACT, Reg. 8-18)	Y	
Part 5	BACT compliant technology for light hydrocarbon service pump seals, fugitive organics shall not exceed 500 ppm (basis: BACT, Reg. 8-18)	Y	
Part 6	BACT compliant technology for light hydrocarbon service compressor seals, fugitive organics shall not exceed 500 ppm (basis: BACT, Reg. 8-18)	Y	
Part 7	Pressure relief valves shall be vented to the refinery fuel gas system or abatement device w/ capture and destruction efficiency of at least 98% by weight (basis: BACT, Reg. 8-28)	Y	
Part 8	Integrate all new fugitive equipment in organic service installed into facility fugitive equipment monitoring and repair program (basis: BACT, Reg. 8-18)	Y	
BAAQMD Condition #21186	S916 No. 16 Furnace No. 1 HDS Heater only		
Part 1	Sample fuel gas for total reduced sulfur (TDS) (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 2	Analyze and record total reduced sulfur (TDS) (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	
Part 3	TRS limit of 300 ppmvd (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	

**Table IV – ~~Aab~~C.4.2
 Source-specific Applicable Requirements**

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Annual average TRS limit of 281 ppmvd (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	
Part 5	Sampling and analysis to start 120 days after issuance of Permit to Operate	Y	
Part 6	Provide list of variables affecting TRS content of 100# fuel gas, description of variable, and control of variable	N	
Part 7	Recordkeeping	Y	
<u>BAAQMD Condition 21849</u>	(S-908, S-909, S-912, S-913 Only)		
Part 11.d	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (S-908, S-909, S-912, S-913 only)	Y	
<u>BAAQMD Condition # 22621</u>	S-913 No. 2 Feed Prep Heater (F13) only		
Part 1	Startup condition for fugitives (basis: cumulative increase, offsets)	Y	
Part 2	Startup condition for offsets (basis: offsets)	Y	
Part 3	Fugitive emission limit for valves (basis: BACT, Regulation 8-28, offsets)	Y	
Part 4	Fugitive emission limit for flanges and connectors (basis: BACT, Regulation 8-28, offsets)	Y	
Part 5	Fugitive emission regulations from relief valves (basis: BACT, Regulation 8-28, offsets)	Y	
Part 6	Integration of all new fugitive equipment in organic service installed into the facility fugitive equipment monitoring and repair program. (basis: BACT, Regulation 8-18, offsets)	Y	
Part 7	Sample 100 pound fuel gas for total sulfur (basis: cumulative increase, offsets, Regulation 2-1-403)	Y	
Part 8	Recordkeeping (basis: cumulative increase, offsets, recordkeeping, Regulation 2-1-403)	Y	
Part 9	Establish NOx Box at startup (basis: Regulation 9-10-301, Regulation 9-10-502)	Y	

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Source-specific Applicable Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, ~~S924-No. 24 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, S950-No. 50 FURNACE~~

NSPS SUBPART J BY ~~CONSENT DECREE~~ CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Procedure for calculating IERC's (basis: Regulation 9-10-301, Regulation 9-10-502, Regulation 2-9)	Y	
BAAQMD Condition # 23562			12/31/2010 (S908, S909, S912, S913)
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	12/31/2010 (S908, S909, S912, S913)

Table IV – AFC.4.3
Source-specific Applicable Requirements
S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S971–NO. 53
FURNACE, S972–NO. 54 FURNACE, S973–NO. ~~56-55~~ FURNACE, S974–NO. ~~55-56~~
FURNACE,
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations <u>10, 12 and 2-1-403</u>	Y	
1-524	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	<u>emission limit exceedance reporting requirements</u> Excesses	Y	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (12/05/2007)		

Table IV – ~~AFC.4.3~~
Source-specific Applicable Requirements
S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S971–NO. 53
FURNACE, S972–NO. 54 FURNACE, S973–NO. ~~56-55~~ FURNACE, S974–NO. ~~55-56~~
FURNACE,
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitations	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIPBAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (09/04/1998-12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
Regulation 8-18	Fugitives Monitoring	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/9407/17/2002)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.1	...Start-up/Shutdown Contribution	N	
9-10-301.2	...Out-of-Service Units Contribution	N	
9-10-301.3	...Test firing on Non-gaseous fuel Contribution	N	
9-10-302	Interim Facility-wide NOx emission rate limit	N	

Table IV – AFC.4.3
Source-specific Applicable Requirements
S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S971–NO. 53
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	<u>N</u>	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	<u>N</u>	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	<u>Y</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	<u>N</u>	
9-10-603	Compliance Determination	<u>Y</u>	
9-10-604	Determination of Higher Heating Value	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (4/5/9404/12/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	<u>Y</u>	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	<u>Y</u>	
BAAQMD Regulation 10 Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)		
BAAQMD Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference NSPS Incorporation by Reference, Petroleum Refineries(02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	<u>Y</u>	
BAAQMD Manual of Procedures, Volume V	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	
NSPS 40 CFR 60 Subpart A	Standards of Performance for New Stationary Sources, General Provisions (8/27/2001)	Y	

Table IV – AFC.4.3
Source-specific Applicable Requirements
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NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7	Notification and Recordkeeping	N	
60.8	Performance Tests	N	
60.9	Availability of Information	N	
60.11	Compliance with standards and maintenance requirements	N	
60.11(a)	Compliance with standards and maintenance requirements	N	
60.11(d)	Good Operating Practice	N	
60.12	Circumvention	N	
60.13	Monitoring Requirements	N	
NSPS 40 CFR 60 Subpart J	<u>NSPS - Standards of Performance for Petroleum Refineries</u> (10/17/2000/06/24/2008)		
60.100	Applicability	Y	
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) of Refineries	Y	
60.100(b)	Applicability: Constructed/ <u>reconstructed</u> /modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	monitoring 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(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	

Table IV – AFC.4.3
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	<u>Y</u>	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test methods and procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
NSPS Title 40 Part-CFR 60 Appendix B	NSPS <u>Title 40 Part 60 Appendix B – Performance Specifications (10/17/200001/12/2004)</u>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part-CFR 60 -Appendix F	NSPS <u>Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/200701/12/2004)</u>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 4357			
Part 1	Definitions (basis: definitions)	✘	
Part 2	Emissions	✘	
Part 3	Emission Reductions	✘	
Part 4	Monitoring and Source Testing	✘	
Part 5	Reporting and Recordkeeping	✘	
Part 7	Combustion Controls	✘	
Part 9	Sulfur Recovery Facilities	✘	
Part 10	Access (basis: cumulative increase, offsets, BACT)	✘	

Table IV – AFC.4.3
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	N	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	N	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	N	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	N	
BAAQMD Condition # 16685			
Part 1	Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403)	N	
Part 2	Fuel Use Record Keeping (basis: cumulative increase, Regulation 2-1-403)	N	
BAAQMD Condition # 8077	Listed conditions apply to sources named in each description noted		
Part A2A (S974)	S-974 Start-Up and Shutdown Time and NOx Emission Limits (basis: cumulative increase, offsets)	Y	
Part A2B (S973) (S974)	Ammonia Injection Requirement at A-31 SCR abating S-973 and S-974	Y	
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4A	NSPS Subpart J applicability and H2S CEMS requirements for fuel gas supply for S951, S971, S972, S973, and S974 (basis: NSPS)	Y	
Part B4B	Monitoring – NOx/O2 CEM (basis: cumulative increase, offsets) (S-973 and S-974 only)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets) (S-917, S-919, S-951, S-973, and S-974 only)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7A	NOx emission limits (basis: cumulative increase, offsets, BACT)	Y	

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Source-specific Applicable Requirements
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FURNACE,
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>(S-917, S-919, S-971, S-972, S-973, and S-974 only)</u>		
<u>Part B7B</u>	<u>Maximum firing rate (basis: cumulative increase, offsets)</u> <u>(S-973 and S-974 only)</u>	<u>Y</u>	
<u>Part B9</u>	<u>Sulfur Recovery Facilities</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition # 16685</u>			
<u>Part 1</u>	<u>Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403, Bubble Condition 8077 for S917 via Application 19647)</u>	<u>Y</u>	
<u>BAAQMD Condition-# 18372</u>			
<u>Part 1</u>	<u>District Approved Flowmeter (Regulation 9-10-502.2)</u>	<u>Y</u>	

Table IV – ~~AFC.4.3~~
Source-specific Applicable Requirements
S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S971–NO. 53
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FURNACE,
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Natural Gas or Refinery Fuel Gas only (Regulation 9-10)	Y	
Part 3	Maximum Daily Firing Rate Limit (Regulation 9-10)	Y	
Part 20	S971 to be abated by A1433, A1433 requires CEM (Regulation 9-10)	Y	
Part 21	S972 to be abated by A1433, A1433 requires CEM (Regulation 9-10)	Y	
Part 22	S971 and S972 ammonia slip limit 20 ppmv (toxics)	Y	
Part 23	Recordkeeping (Regulation 9-10-504)	Y	
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10- Daily Firing Rate Limits (basis: Regulation 9-10-301, 303 , & 305)	Y	
Part 28	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	Y	
Part 29	Operating condition requirements for those sources without CEM (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 30	NOx box establishment requirements (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 31	NOx box ranges (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 32	NOx Box Deviations (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 33	Source test requirements (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 34	CO source test (basis: Regulation 9-10-502, 1-522) (S-973, and S-974 only)	Y	
Part 35	CO results requires CEM (basis: Regulation 9-10-502, 1-522) (S-917, S-919, S-951, S-973, and S-974 only)	Y	
Part 36	Source test records (basis: recordkeeping; Regulation 9-10-504)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 21186	S917 only No. 17 Furnace — No. 1 HDS Prefractionator Reboiler		

Table IV – ~~AFC.4.3~~
Source-specific Applicable Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Sample fuel gas for total reduced sulfur (TDS) <u>(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)</u>	Y	
Part 2	Analyze and record total reduced sulfur (TDS) <u>(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)</u>	Y	
Part 3	TRS limit of 300 ppmvd <u>(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)</u>	Y	
Part 4	Annual average TRS limit of 281 ppmvd <u>(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)</u>	Y	
Part 5	Sampling and analysis to start 120 days after issuance of Permit to Operate	Y	
Part 6	Provide list of variables affecting TRS content of 100# fuel gas, description of variable, and control of variable	N	
Part 7	Recordkeeping	Y	

Table IV – C.4.4
Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-520</u>	<u>Continuous Emission Monitoring</u>	<u>Y</u>	
<u>1-520.8</u>	<u>Monitors pursuant to Regulations 10, 12 and 2-1-403</u>	<u>Y</u>	
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
<u>1-602</u>	<u>Area and Continuous Monitoring Requirements</u>	<u>N</u>	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (06/28/1999)</u>		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-522.7</u>	<u>Excesses</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particle Weight Limitation</u>	<u>N</u>	

Table IV – C.4.4
Source-specific Applicable Requirements
S950-NO. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
6-1-310.3	<u>Heat transfer operations</u>	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particle Weight Limitation</u>	<u>Y</u>	
6-310.3	<u>Heat transfer operations</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9 Rule 10	<u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (07/17/2002)</u>		
9-10-301	<u>Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU</u>	<u>N</u>	
9-10-303	<u>Federal Interim Facility-wide NOx emission rate limit</u>	<u>Y</u>	
9-10-305	<u>CO emission limit</u>	<u>N</u>	
9-10-502	<u>Monitoring for sources subject to 9-10-301, 303, 304, and 305</u>	<u>N</u>	
9-10-502.1	<u>CEMS for NOx, CO, and O2</u>	<u>N</u>	
9-10-502.2	<u>Fuel flowmeters</u>	<u>Y</u>	
9-10-504	<u>Recordkeeping</u>	<u>N</u>	
9-10-504.1	<u>Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303</u>	<u>N</u>	
9-10-505	<u>Reporting</u>	<u>N</u>	
9-10-601	<u>Determination of Nitrogen Oxides</u>	<u>Y</u>	
9-10-602	<u>Determination of Carbon Monoxide and Stack-Gas Oxygen</u>	<u>N</u>	
9-10-603	<u>Compliance Determination</u>	<u>Y</u>	
9-10-604	<u>Determination of Higher Heating Value</u>	<u>Y</u>	
SIP Regulation 9 Rule 10	<u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</u>		
9-10-502	<u>Monitoring for sources subject to 9-10-303</u>	<u>Y</u>	
9-10-504.1	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	
9-10-505	<u>Reporting requirements for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	

Table IV – C.4.4
Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	<u>Y</u>	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	<u>Y</u>	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982)	<u>N</u>	
40 CFR 60 Subpart J	NSPS – Standards of Performance for Petroleum Refineries (06/24/2008) Applicability specified in Condition 23562		
60.104	Standards for sulfur oxides	<u>Y</u>	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	<u>Y</u>	
60.105	Monitoring of Emissions and Operations	<u>Y</u>	
60.105(a)	Continuous monitoring system requirements	<u>Y</u>	
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))	<u>Y</u>	
60.105(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	<u>Y</u>	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	<u>Y</u>	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	<u>Y</u>	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	<u>Y</u>	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	<u>Y</u>	
60.106	Test Methods and Procedures	<u>Y</u>	
60.106(a)	Performance test requirements	<u>Y</u>	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	<u>Y</u>	
60.107	Reporting and recordkeeping requirements	<u>Y</u>	
60.107(f)	Semiannual reporting	<u>Y</u>	
60.107(g)	Certification of semiannual report	<u>Y</u>	

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Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
40 CFR 60 Appendix B	<u>NSPS Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</u>		
<u>Performance Specification 7</u>	<u>Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources</u>	<u>Y</u>	
40 CFR 60 Appendix F	<u>NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</u>		
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems</u>	<u>Y</u>	
40 CFR 61 Subpart FF	<u>NESHAPS - Benzene Waste Operations (12/04/2003)</u> <u>Abatement device for S606 and S607</u>		
<u>61.340(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>61.349</u>	<u>Standards: Closed vent systems and control devices</u>	<u>Y</u>	
<u>61.349(a)</u>	<u>Standards: Closed vent systems and control devices</u>	<u>Y</u>	
<u>40 CFR 61.349(a)(1)(i)</u>	<u>Fugitives: Closed vent-vent system to operate with no detectable emissions as indicated by instrument reading of less than 500 ppmv as per method in 61.355(h)</u>	<u>Y</u>	
<u>40 CFR 61.349(a)(1)(iii)</u>	<u>Closed Vent System Gauging and Sampling Devices</u>	<u>Y</u>	
<u>40 CFR 61.349(a)(1)(iv)</u>	<u>Closed Vent System Devices Venting to Atmosphere</u>	<u>Y</u>	
<u>61.349(a)(2)</u>	<u>Standards: Closed vent systems and control devices; control device requirements</u>	<u>Y</u>	
<u>61.349(a)(2)(i)</u>	<u>Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device</u>	<u>Y</u>	
<u>61.349(a)(2)(i)(A)</u>	<u>Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-reduce organic concentration by 95 % or more (weight)</u>	<u>Y</u>	
<u>61.349(a)(2)(i)(B)</u>	<u>Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-achieve total organic concentration of 20 ppmv per Method 18 on dry basis corrected to 3 percent oxygen</u>	<u>Y</u>	
<u>61.349(a)(2)(i)(C)</u>	<u>Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-minimum residence time of 0.5 seconds at minimum temperature of 1500 F and introduce vent stream into flame zone of boiler or process heater</u>	<u>Y</u>	
<u>61.349(b)</u>	<u>Standards: Closed vent systems and control devices; operate at all times</u>	<u>Y</u>	
<u>61.349(c)</u>	<u>Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance</u>	<u>Y</u>	
<u>40 CFR 61.349(c)(1)</u>	<u>Control Device Engineering Calculations</u>	<u>Y</u>	

Table IV – C.4.4
Source-specific Applicable Requirements
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NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.349(c)(2)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; performance tests per 61.355	Y	
61.349(e)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; administrator required	Y	
61.349(f)	Standards: Closed vent systems and control devices – quarterly visual inspections	Y	
61.349(g)	Standards: Closed vent systems and control devices – repair and delay of repair	Y	
61.349(h)	Standards: Closed vent systems and control devices; control device requirements – monitor control device per 61.354(c)	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(c)	Monitoring of operations; control device monitoring requirements	Y	
61.354(c)(5)	Monitoring of operations; control device monitoring requirements; boiler or process heater with heat input >= 150 MMBTU/hr; install continuous parametric monitor to verify good combustion practices	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(i)	Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(f)	Recordkeeping requirements; closed vent system and control device records	Y	
61.356(f)(1)	Recordkeeping requirements; closed vent system and control device records; signed certification of design	Y	
61.356(f)(2)	Recordkeeping requirements; closed vent system and control device records; engineering calculations	Y	
61.356(f)(3)	Recordkeeping requirements; closed vent system and control device records; performance test records	Y	
61.356(h)	Recordkeeping requirements; closed vent system and control device records; detectable emissions	Y	
61.356(j)	Recordkeeping requirements; closed vent system and control device operating records	Y	

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Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>61.356(j)(6)</u>	<u>Recordkeeping requirements; control device operating records – boiler or process heater – changes and periods when not operating as designed</u>	<u>Y</u>	
<u>61.357</u>	<u>Reporting requirements</u>	<u>Y</u>	
<u>61.357(d)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg</u>	<u>Y</u>	
<u>61.357(d)(6)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections</u>	<u>Y</u>	
<u>61.357(d)(7)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly report</u>	<u>Y</u>	
<u>61.357(d)(7)(i)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly report; treatment process outlet benzene > 10 ppmw</u>	<u>Y</u>	
<u>61.357(d)(7)(iv)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c)</u>	<u>Y</u>	
<u>61.357(d)(7)(iv)(G)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c); change in point of entry of vent stream</u>	<u>Y</u>	
<u>61.357(d)(8)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections</u>	<u>Y</u>	
BAAQMD Condition # 4357			
Part 1	Definitions (basis: definitions)	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3	Emission Reductions (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part 5	Reporting and Recordkeeping (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition 7410			

Table IV – C.4.4
Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Part 1</u>	<u>S950 abatement for S-606 and S-607 air strippers (basis: cumulative increase, toxics)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Limit on non-methane hydrocarbon emissions (basis: cumulative increase)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Limit on hydrogen sulfide emissions (basis: toxics)</u>	<u>N</u>	
<u>Part 5</u>	<u>Minimum S950 operating temperature when abating S606 and/or S607 (basis: cumulative increase)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Record keeping for operating temperature (basis: cumulative increase)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Record keeping (basis: cumulative increase)</u>	<u>Y</u>	
<u>BAAQMD Condition 8077</u>			
<u>Part B1</u>	<u>Definitions (basis: definitions)</u>	<u>Y</u>	
<u>Part B2</u>	<u>Emissions (basis: cumulative increase, BACT, offsets)</u>	<u>Y</u>	
<u>Part B3</u>	<u>Emission reductions (basis: cumulative increase, offsets, bubble)</u>	<u>Y</u>	
<u>Part B4</u>	<u>Monitoring</u>	<u>Y</u>	
<u>Part B4A</u>	<u>Monitoring and Source Testing (toxics, NSPS)</u>	<u>Y</u>	
<u>Part B4D</u>	<u>Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Record Keeping (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B7</u>	<u>Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	

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Source-specific Applicable Requirements
S950-No. 50 FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition # 16685</u>			
<u>Part 1</u>	<u>Daily Firing rate limitations (basis: cumulative increase, . Regulation 2-1-403, Bubble Condition 8077 for S917 via Application 19647)</u>	<u>Y</u>	
<u>BAAQMD Condition 18372</u>			
<u>Part 2</u>	<u>Natural Gas or Refinery Fuel Gas only (Regulation 9-10)</u>	<u>Y</u>	
<u>Part 19</u>	<u>S950 to be abated by A1432, A1432 requires CEM (Regulation 9-10)</u>	<u>Y</u>	
<u>Part 22</u>	<u>S950 ammonia slip limit 20 ppmv (toxics)</u>	<u>Y</u>	
<u>Part 27</u>	<u>Sources subject to- <u>the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10, Daily Firing Rate Limits</u> (basis: Regulation 9-10-301 & 305)</u>	<u>Y</u>	
<u>Part 28</u>	<u>O2 monitor and record requirement (basis: Regulation 9-10-502)</u>	<u>Y</u>	
<u>Part 34</u>	<u>CO source test (basis: Regulation 9-10-502, 1-522)</u>	<u>Y</u>	
<u>Part 36</u>	<u>Source test records (basis: recordkeeping; Regulation 9-10-504)</u>	<u>Y</u>	
<u>BAAQMD Condition 23562</u>			
<u>Part 1</u>	<u>NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)</u>	<u>Y</u>	
<u>Part 4</u>	<u>CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)</u>	<u>Y</u>	

Table IV – AAaC.4.5
Source-specific Applicable Requirements
~~S938 No. 38 FURNACE, S939 No. 39 FURNACE, S1412~~ SULFURIC ACID PLANT START-UP
HEATER
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
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	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90/12/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	NY	
6-1-305	Visible Particles	NY	
6-1-310	Particle Weight Limitation	NY	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	NY	
SIP Regulation 6	Particulate Matter and Visible Emissions(09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	

Table IV – AAaC.4.5
Source-specific Applicable Requirements
S938 No. 38 FURNACE, S939 No. 39 FURNACE, S1412 SULFURIC ACID PLANT START-UP
HEATER

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	<u>Particle Weight Limitation</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (4/5/9407/17/2002)		
9-10-111	Limited Exemption, Small Units <u>exempt from 9-10-301, 303, and 305</u> [applies to S925, S939, S1412]	N	
9-10-112	Limited Exemption, Low Fuel Usage [applies to S938]	N	
<u>9-10-306</u>	<u>Small Unit requirements (comply with 9-10-306.1 OR 9-10-306.2 OR 9-10-306.3)</u>	<u>N</u>	
9-10-306.1	<u>Small Unit requirements [applies to S925, S938, S939, S1412] (comply with 9-10-306.1 OR 9-10-306.2)Meet stack-gas oxygen concentration, or</u>	<u>NY</u>	
9-10-306.2	<u>Small Unit requirements [applies to S925, S938, S939, S1412] (comply with 9-10-306.1 OR 9-10-306.2)Conduct tune-ups; or</u>	<u>NY</u>	
<u>9-10-306.3</u>	<u>Meet 9-10-301 and 305 emission limits</u>	<u>N</u>	
9-10-502	Monitoring [applies to S938]	N	
9-10-502.2	Fuel flowmeters [applies to S938]	N	
9-10-504	Recordkeeping (<u>applies if complying with 9-10-306.2</u>)	N	
<u>9-10-504.2</u>	<u>Recordkeeping (applies if complying with 9-10-306.2)</u>	<u>Y</u>	
9-10-505	Reporting <u>for sources subject to 9-10-301, 303, 304, 305, and/or 306</u>	N	
<u>9-10-505.1</u>	<u>Reporting violations of 9-10-301, 303, 304, 305, and/or 306</u>	<u>N</u>	
<u>9-10-505.2.2</u>	<u>Reporting excess emissions</u>	<u>N</u>	
<u>9-10-601</u>	<u>Determination of Nitrogen Oxides (if complying with 9-10-306.3)</u>	<u>Y</u>	
<u>9-10-602</u>	<u>Determination of Carbon Monoxide and Stack-Gas Oxygen (if complying with 9-10-306.3)</u>	<u>N</u>	
<u>9-10-603</u>	<u>Determination of Carbon Monoxide and Stack-Gas Oxygen (if complying with 9-10-306.3)</u>	<u>Y</u>	
<u>9-10-604</u>	<u>Determination of Higher Heating Value</u>	<u>Y</u>	
<u>9-10-605</u>	<u>Tune-up Procedures</u>	<u>Y</u>	
SIP Regulation 9,	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in		

Table IV – AAaC.4.5
Source-specific Applicable Requirements
S938 No. 38 FURNACE, S939 No. 39 FURNACE, S1412 SULFURIC ACID PLANT START-UP
HEATER

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 10	Petroleum Refineries (1/5/9404/12/2008)		
<u>9-10-111</u>	<u>Limited Exemption, Small Units exempt from 9-10-303</u>	<u>Y</u>	
<u>9-10-306</u>	<u>Small Unit requirements (comply with 9-10-306.1 OR 9-10-306.2)</u>	<u>Y</u>	
<u>9-10-502</u>	<u>Monitoring</u>	<u>N</u>	
<u>9-10-505</u>	<u>Reporting for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	
<u>9-10-505.1</u>	<u>Reporting violations of 9-10-303 and/or 306</u>	<u>Y</u>	
<u>9-10-505.2.2</u>	<u>Reporting excess emissions</u>	<u>Y</u>	
BAAQMD Regulation 10 Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)		
BAAQMD Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference NSPS Incorporation by Reference, Petroleum Refineries(02/16/2000)		
<u>10-14</u>	<u>Subpart J – Standards of Performance for Petroleum Refineries</u>	<u>Y</u>	
<u>BAAQMD Manual of Procedures, Volume V</u>	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	
NSPS 40 CFR 60 Subpart A	General Provisions (8/27/2001)	Y	
<u>60.7</u>	<u>Notification and recordkeeping</u>	Y	
<u>60.8</u>	<u>Performance tests</u>	Y	
<u>60.9</u>	<u>Availability of Information</u>	Y	
<u>60.11</u>	<u>Compliance with standards and maintenance requirements</u>	Y	
<u>60.11(a)</u>	<u>Compliance with standards and maintenance requirements</u>	Y	
<u>60.11(d)</u>	<u>Good Operating Practice</u>	Y	
<u>60.12</u>	<u>Circumvention</u>	Y	
<u>60.13</u>	<u>Monitoring requirements</u>	Y	
NSPS 40 CFR 60 Subpart J	<u>NSPS - Standards of Performance for Petroleum Refineries (10/17/200006/24/2008)</u>	Y	
	<u>Applicability specified in Condition 23562</u>		
<u>60.104</u>	<u>Standards for sulfur oxides</u>	<u>Y</u>	
<u>60.104(a)(1)</u>	<u>Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	

Table IV – AAaC.4.5
Source-specific Applicable Requirements
S938 No. 38 FURNACE, S939 No. 39 FURNACE, S1412 SULFURIC ACID PLANT START-UP
HEATER

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	—monitoring <u>Monitoring</u> requirements 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	
<u>60.105(a)(4)(i)</u>	<u>Span value for H2S monitoring is 425 mg/dscm H2S</u>	<u>Y</u>	
<u>60.105(a)(4)(ii)</u>	<u>Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location</u>	<u>Y</u>	
<u>60.105(a)(4)(iii)</u>	<u>Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations</u>	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semiannual reporting</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of semiannual report</u>	<u>Y</u>	
NSPS Title 40 Part 60-40 CFR 60 Appendix B	NSPS - Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004)		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part CFR 60-40 CFR 60 Appendix F	NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – AAaC.4.5
Source-specific Applicable Requirements
~~S938 No. 38 FURNACE, S939 No. 39 FURNACE, S1412~~ **SULFURIC ACID PLANT START-UP**
HEATER

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 23562			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	2010 (S902)

Table IV – AAeC.4.6
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace

Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations <u>10, 12 and 2-1-403</u>	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	

Table IV – AAeC.4.6
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace
Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>Y</u>	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u> Excesses	<u>Y</u>	
<u>1-523</u>	<u>Report exceedances</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-1-310</u>	<u>Particle Weight Limitation</u>	<u>Y</u>	
<u>6-1-310.3</u>	<u>Heat transfer operations</u>	<u>Y</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particle Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat transfer operations</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	

Table IV – AAeC.4.6
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace
Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 10 Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)		
BAAQMD Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000) <u>Applicable only when sources are firing refinery fuel gas</u>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	<u>Y</u>	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982)	NY	
NSPS 40 CFR 60 Subpart A	Standards of Performance for New Stationary Sources (8/27/2001)	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Good Operating Practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
NSPS 40 CFR 60 Subpart J	<u>NSPS - Standards of Performance for Petroleum Refineries (10/17/2000) 06/24/2008</u> <u>Applicable only when sources are firing refinery fuel gas</u>		
60.100	Applicability	Y	
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) Fuel Gas Combustion Devices of Refineries	Y	
60.100(b)	Applicability: Constructed/ <u>reconstructed</u> /modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	

Table IV – AAeC.4.6
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace
Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(4)	—monitoring 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	
<u>60.105(a)(4)(i)</u>	<u>Span value for H₂S monitoring is 425 mg/dscm H₂S</u>	<u>Y</u>	
<u>60.105(a)(4)(ii)</u>	<u>Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location</u>	<u>Y</u>	
<u>60.105(a)(4)(iii)</u>	<u>Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations</u>	<u>Y</u>	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H ₂ S standards for fuel gas combustion devices	Y	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semiannual reporting</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of semiannual report</u>	<u>Y</u>	
NSPS Title 40 Part CFR 60 Appendix B	NSPS - Title 40 Part 60 Appendix B – Performance Specifications (10/17/200004/12/2004) <u>Applicable only when sources are firing refinery fuel gas</u>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
NSPS Title 40 Part CFR 60 Appendix F	NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/200704/12/2004) <u>Applicable only when sources are firing refinery fuel gas</u>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition-# 18539	Applies to S-1470 only		
Part 1	Limitation on Fuel Use Type (basis: cumulative increase, toxics)	Y	
Part 2	Fuel Flow Meter Requirement (basis: cumulative increase)	Y	
Part 3A	Requirement for Calorimeter (basis: BACT, cumulative increase, offsets, toxics)	Y	
<u>Part 3B</u>	<u>Requirement for Calorimeter (basis: BACT, cumulative increase, offsets, toxics)</u>	<u>Y</u>	
Part 4	Total Reduced Sulfur Limit Annual Average (basis: cumulative increase, BACT, offsets)	Y	

Table IV – AAeC.4.6
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace
Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Total Reduced Sulfur Limit 24 Hour Average (basis: BACT)	Y	
Part 6	Total Reduced Sulfur Sampling Device Requirements (basis: BACT)	Y	
Part 7	Total Reduced Sulfur Sampling Frequency Requirement (basis: BACT)	Y	
Part 8	NOx Monitoring Requirement (basis: cumulative increase, BACT, offsets)	Y	
Part 9	Annual Fuel Use Limit (basis: cumulative increase, toxics, offsets)	Y	
Part 10	NOx Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part 11	CO Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part 12	POC Emission Limit (basis: cumulative increase, offsets)	Y	
Part 13	PM-10 Emission Limit (basis: cumulative increase, offsets)	Y	
Part 14	SO2 Emission Limit (basis: cumulative increase, BACT, offsets)	Y	
Part 15	Requirement that S1470 be Abated by A-908 (basis: BACT)	Y	
Part 16	Ammonia Slip Limitation <u>and Annual Source Test requirement</u> (basis: toxics, <u>cumulative increase, offsets, Bubble Condition 8077 per Application 19647</u>)	Y	
Part 17	Start-Up Source Test Requirements (basis: cumulative increase, offset)	Y	
<u>Part 17A</u>	<u>Annual CO Source Test (basis: Regulation 2-1-403, Regulation 9-10)</u>	<u>Y</u>	
<u>Part 17B</u>	<u>Source Test Report Submittal (basis: Regulation 2-1-403, Regulation 9-10)</u>	<u>Y</u>	
Part 18	Recordkeeping for fuel usage, and H2S/TRS fuel content Limit on the Annual Maximum Firing Rate of S908 (basis: cumulative increase, offsets)	Y	
<u>Part 18A</u>	<u>Maximum Annual Firing Rate Limit (basis: cumulative increase)</u>	<u>Y</u>	
Part 19	Prohibition on the Operation of S 906 and S 907 (basis: offsets)	Y	
Part 20	Offsets Required If Emissions Exceeded (basis: offsets)	Y	
BAAQMD Condition-# 19199	(Applies to S-1106 only)		
Part H0	Maximum fuel firing rate limitation (basis: cumulative increase)	Y	
Part H1	Natural gas only (basis: cumulative increase, toxics)	Y	
Part H2	Requirement for fuel flowmeter (basis: cumulative increase, toxics)	Y	
Part H3	Maximum annual fuel use (basis: cumulative increase, toxics, offsets)	Y	
Part H4	NOx Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part H5	CO Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part H6	POC Emission Limit (basis: cumulative increase, offsets)	Y	
Part H7	PM-10 Emission Limit (basis: cumulative increase, offsets)	Y	
Part H8	SO2 Emission Limit (basis: cumulative increase, BACT, offsets)	Y	
Part H9	Abatement requirements for startup and shutdown (basis: BACT)	Y	
Part H10	Ammonia Slip Limitation (basis: toxics)	Y	

Table IV – ~~AAeC.4.6~~
Source-specific Applicable Requirements
S1106-No. 72 Furnace, S1470-No. 71 Furnace
Natural Gas Fired; Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part H11	NOx CEM requirements (basis: cumulative increase, BACT, offsets)	Y	
Part H12	CO Source test requirements (basis: start-up, offsets, BACT, cumulative increase, toxics)	Y	
Part H13	NOx, CO, POC, SO2, ammonia, and PM10 source test requirements (basis: start-up, offsets, BACT, cumulative increase, toxics)	Y	
Part H14	Recordkeeping (basis: cumulative increase, offsets)	Y	
Part H15	Offsets requirements (basis: offsets)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – ~~XX2C.4.7~~
Source-specific Applicable Requirements
Delayed Coker Heaters
Abated by Selective Catalytic Reduction Systems
S1511 (~~Heater #1F78~~) Abated by A1511)
S1512 (~~Heater #2F79~~)-Abated by A1512)

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)(07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
<u>1-522.1</u>	<u>approval of plans and specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>scheduling requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM performance testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>reporting of inoperative CEMs</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM calibration requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM accuracy requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>emission limit exceedance reporting requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>monitoring data submittal requirements</u>	<u>Y</u>	

Table IV – ~~XX2C.4.7~~
Source-specific Applicable Requirements
Delayed Coker Heaters
Abated by Selective Catalytic Reduction Systems
S1511 (~~Heater #1F78~~) Abated by A1511)
S1512 (~~Heater #2F79~~) -Abated by A1512)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-522.9</u>	<u>recordkeeping requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
<u>1-602</u>	<u>Area and Continuous Monitoring Requirements</u>	<u>N</u>	
SIP Regulation 1	General Provisions and Definitions (11/15/0006/28/1999)		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-522.7</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/9012/07/2007)		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particle Weight Limitation</u>	<u>N</u>	
<u>6-1-310.3</u>	<u>Heat transfer operations</u>	<u>N</u>	
6-404	Appearance of Emissions	Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particle Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat transfer operations</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	

Table IV – ~~XX2C.4.7~~
Source-specific Applicable Requirements
Delayed Coker Heaters
Abated by Selective Catalytic Reduction Systems
S1511 (~~Heater #1F78~~) Abated by A1511)
S1512 (~~Heater #2F79~~) -Abated by A1512)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u> <u>Applicable only when sources are firing refinery fuel gas</u>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)		
9-1-302	General Emission Limitation	N	
NSPS 40 CFR 60 Part A	Standards of Performance for New Stationary Sources – General Provisions (8/27/2001)		
60.7	Notification and Recordkeeping	N	
60.8	Performance tests	N	
60.11(a)	Compliance with standards and maintenance requirements	N	
60.11(d)	Good Operating Practice	N	
60.12	Circumvention	N	
60.13	Monitoring requirements	N	
NSPS 40 CFR 60 Part Subpart J	Standards of Performance for New Stationary Sources – NSPS - Standards of Performance for Petroleum Refineries (11/17/2000/06/24/2008) <u>Applicable only when sources are firing refinery fuel gas</u>		
60.100(a)	<u>Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)</u> Applicability to fuel gas combustion devices	Y	
60.100(b)	<u>Applicability: Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007</u> Applicability to fuel gas combustion devices	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	<u>Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices</u> Fuel gas H₂S concentration limited to 230 mg/dsem (0.10 gr/dsef) 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	

Table IV – ~~XX2C.4.7~~
Source-specific Applicable Requirements
Delayed Coker Heaters
Abated by Selective Catalytic Reduction Systems
S1511 (~~Heater #1F78~~) Abated by A1511)
S1512 (~~Heater #2F79~~) -Abated by A1512)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)(ii)	Excess emission definitions for 60.7(c)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H ₂ S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
40 CFR 60 Appendix B	NSPS – Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004) Applicable only when sources are firing refinery fuel gas		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
40 CFR 60 Appendix F	NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/2004) Applicable only when sources are firing refinery fuel gas		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition #23129	Applies to S-1511 and S-1512 only		

Table IV – ~~XX2C.4.7~~
Source-specific Applicable Requirements
Delayed Coker Heaters
Abated by Selective Catalytic Reduction Systems
S1511 (~~Heater #1F78~~) Abated by A1511)
S1512 (~~Heater #2F79~~) -Abated by A1512)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 9	<u>Ringelmann No. 1.0 limit (basis: Regulation 6-1)</u>	<u>Y</u>	
Part 10	Fuel type limit (basis: cumulative increase, BACT)	Y	
Part 11	Fuel gas TRS limits (daily and annual) (basis: BACT)	Y	
Part 12	NOx and CO emission limits (basis: BACT)	Y	
Part 12a	NOx and CO emission limits during SSM (basis: cumulative increase, offsets)	Y	
Part 12b	CO emission limit for up to 100 days per year (basis: cumulative increase, offsets)	Y	
Part 13	Ammonia emission limit (basis: cumulative increase, toxics)	Y	
Part 14	Annual fuel use <u>firing rate</u> limit (basis: cumulative increase)	Y	
Part 15	Natural gas TRS-total sulfur <u>limit – PG&E records</u> (basis: BACT for SO2 and PM10 when firing natural gas)	Y	
Part 17	Sulfuric acid mist emissions (SAM) (basis: PSD)	Y	
Part 19	TRS CEM (basis: BACT)	Y	
Part 20	S-1511 & S-1512 abatement requirements (basis: cumulative increase)	Y	
Part 21	NOx CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 22	CO CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 23	O2 CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 24	Fuel flow meter (basis: cumulative increase)	Y	
Part 25	Fuel gas calorimeter (basis: BACT, cumulative increase, offsets, toxics)	Y	
Part 26	Initial source test (<u>4 test conditions</u>) (basis: compliance demonstration, PSD avoidance, source test compliance verification)	Y	
Part 27	Record format and retention (basis: Regulation 2-6-501)	Y	
Part 28	Recordkeeping S-1511 & S-1512 (basis: BACT, offsets, cumulative increase)	Y	

SECTION C.5 COMBUSTION – GAS TURBINES

Table IV – C.5.1
Source-Specific Applicable Requirements
S963 Alkylation Plant (Gas Turbine 177 (Alkylation Plant))

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements (12/05/2007)</u>		
6-1-301	<u>Ringelmann No. 1 Limitation</u>	<u>N</u>	
6-1-305	<u>Visible Particles</u>	<u>N</u>	
6-1-310	<u>Particulate Weight Limitation</u>	<u>N</u>	
6-1-401	<u>Appearance of emissions</u>	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-401	<u>Appearance of emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9 Rule 9	<u>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/06/2006)</u>		
9-9-113	<u>Exemption, Inspection and Maintenance Periods</u>	<u>N</u>	
9-9-113.1	<u>Exemption, Inspection and Maintenance Periods Limited to 48 hours</u>	<u>N</u>	
9-9-113.2	<u>Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years</u>	<u>N</u>	
9-9-113.3	<u>Exemption, Inspection and Maintenance Period Limits for boiler inspection years</u>	<u>N</u>	
9-9-114	<u>Exemption, Start-up and Shutdown Periods</u>	<u>N</u>	
9-9-115	<u>Limited Exemption, Minor Inspection and Maintenance Work</u>	<u>N</u>	
9-9-301.1.1	<u>NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW (output)</u>	<u>N</u>	
9-9-301.2	<u>Alternative NOx Emission Limits for Gas Turbines >50 – 150 MMBtu/hr (input)</u>	<u>N</u>	<u>1/1/2010</u>
9-9-301.4	<u>Rebuttal Option for Alternative NOx Emission Limits</u>	<u>N</u>	<u>1/1/2010</u>
9-9-503	<u>Initial Demonstration of Compliance with 9-9-301.2, Source test</u>	<u>N</u>	<u>1/1/2010</u>
9-9-504	<u>Annual Demonstration of Compliance for Turbines Without NOx CEMS</u>	<u>N</u>	<u>1/1/2010</u>

Table IV – C.5.1
Source-Specific Applicable Requirements
S963 Alkylation Plant (Gas Turbine 177 (Alkylation Plant))

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>9-9-601</u>	<u>Determination of Emissions</u>	<u>N</u>	
<u>9-9-602</u>	<u>Determination of Stack Gas Oxygen90</u>	<u>Y</u>	
<u>9-9-603</u>	<u>Continuous Emission Monitoring (establishes three-hour averaging period)</u>	<u>N</u>	
<u>9-9-604</u>	<u>Determination of Stack Gas Oxygen</u>	<u>N</u>	
<u>9-9-605</u>	<u>Compliance with Output Based NOx Emission Standards</u>	<u>N</u>	<u>1/1/2010</u>
<u>SIP Regulation 9 Rule 9</u>	<u>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/15/1997)</u>		
<u>9-9-113</u>	<u>Exemption, Inspection and Maintenance Periods</u>	<u>Y</u>	
<u>9-9-113.1</u>	<u>Exemption, Inspection and Maintenance Periods Limited to 48 hours</u>	<u>Y</u>	
<u>9-9-113.2</u>	<u>Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years</u>	<u>Y</u>	
<u>9-9-113.3</u>	<u>Exemption, Inspection and Maintenance Period Limits for boiler inspection years</u>	<u>Y</u>	
<u>9-9-114</u>	<u>Exemption, Start-up and Shutdown Periods</u>	<u>Y</u>	
<u>9-9-301.1</u>	<u>NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW (output)</u>	<u>Y</u>	
<u>9-9-601</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>40 CFR 63 Subpart YYYY</u>	<u>National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines (3/5/2004)</u>		
<u>63.6085</u>	<u>Am I subject to this subpart</u>	<u>Y</u>	
<u>63.6085(a)</u>	<u>Definition of stationary combustion turbine for Subpart YYYY</u>	<u>Y</u>	
<u>63.6090</u>	<u>What parts of my plant does this subpart cover?</u>	<u>Y</u>	
<u>63.6090(a)</u>	<u>Affected source: any existing, new, or reconstructed stationary combustion turbine at major source of HAPS</u>	<u>Y</u>	
<u>63.6090(1)(1)</u>	<u>Definition of existing stationary combustion turbine for Subpart YYYY</u>	<u>Y</u>	
<u>63.6090(b)</u>	<u>Subcategories with limited requirements</u>	<u>Y</u>	
<u>63.6090(b)(4)</u>	<u>Subcategories with limited requirements: Existing stationary combustion turbines do not have to meet requirements of this subpart and of subpart A of this part. No initial notification is necessary for any existing stationary combustion turbine</u>	<u>Y</u>	
<u>40 CFR 64</u>	<u>Compliance Assurance Monitoring (10/22/1997)</u>		
<u>64.2(a)</u>	<u>General Applicability</u>	<u>Y</u>	
<u>64.2(a)(1)</u>	<u>General Applicability: Subject to an emission limitation or standard for regulated air pollutant</u>	<u>Y</u>	
<u>64.2(a)(2)</u>	<u>General Applicability: Uses a control device to achieve compliance with emission limitation</u>	<u>Y</u>	
<u>64.2(a)(3)</u>	<u>General Applicability: Has pre-control device potential to emit > major</u>	<u>Y</u>	

Table IV – C.5.1
Source-Specific Applicable Requirements
S963 Alkylation Plant (Gas Turbine 177 ~~(Alkylation Plant)~~)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>source threshold</u>		
<u>64.2(b)(1)</u>	<u>Exemptions for emission limitations or standards</u>	<u>Y</u>	
<u>64.2(b)(1)(i)</u>	<u>Exemptions for emission limitations or standards: Emission limitation proposed after 11/15/1990</u>	<u>Y</u>	
<u>BAAQMD Condition-# 8077</u>			
<u>Part B1</u>	<u>Definitions (basis: definitions)</u>	<u>Y</u>	
<u>Part B2</u>	<u>Emissions (basis: cumulative increase, BACT, offsets)</u>	<u>Y</u>	
<u>Part B3</u>	<u>Emission reductions (basis: cumulative increase, offsets, bubble</u>	<u>Y</u>	
<u>Part B4</u>	<u>Monitoring</u>	<u>Y</u>	
<u>Part B4A</u>	<u>Monitoring and Source Testing (toxics, NSPS)</u>	<u>Y</u>	
<u>Part B4D</u>	<u>Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Record Keeping (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B7</u>	<u>Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)</u>	<u>Y</u>	
<u>Part B10</u>	<u>Access (cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B11</u>	<u>Enforcement (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Miscellaneous (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12C</u>	<u>Maintain equipment in good working order (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12D</u>	<u>Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12E</u>	<u>Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12F</u>	<u>Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12G</u>	<u>Baseline emissions (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12J</u>	<u>Instrument downtime (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12K</u>	<u>Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B12L</u>	<u>Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B13</u>	<u>Severability (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part B14</u>	<u>Environmental Management Plan (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD</u>			

Table IV – C.5.1
Source-Specific Applicable Requirements
S963 Alkylation Plant (Gas Turbine 177 ~~(Alkylation Plant)~~)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Condition-#</u> 19528			
<u>Part 19</u>	<u>The Owner/Operator of S963 shall conduct an annual District-approved source test to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 42 ppmv, dry, at 15% O2, fired on natural gas. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 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 9-9-301.1]</u>	<u>Y</u>	

SECTION D LIQUID LOADING

Table IV – D.1
Source-specific Applicable Requirements
Facility B2759 S55 --AMORCO WHARF TERMINAL
Unloading Only

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 8 Rule 44	<u>Organic Compounds – Marine Tank Vessel Operations (12/07/2005)</u>		
8-44-110	<u>Exemption: small loading events</u>	N	
8-44-111	<u>Exemption: marine vessel fueling</u>	N	
8-44-115	<u>Exemption: safety/emergency operations</u>	N	
8-44-116	<u>Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305</u>	N	
8-44-301	<u>Limitations on Marine Tank Vessel Loading and Lightering</u>	N	
8-44-301.1	<u>Loading regulated organic liquid in marine tank vessel must comply with control requirements in 8-44-304</u>	N	
8-44-301.2	<u>Loading any liquid into marine tank vessel must comply with control requirements in 8-44-304 when last load in vessel was regulated organic liquid</u>	N	
8-44-302	<u>Limitations on Marine Tank Vessel Ballasting in vessels where last load was regulated organic liquid</u>	N	
8-44-303	<u>Limitations on Marine Tank Vessel Venting for regulated organic liquids or where last load was regulated organic liquid</u>	N	
8-44-304	<u>Emission Control Requirements for loading (8-44-301), Ballasting (8-44-302), and Venting (8-44-303) [must comply with both requirements]</u>	N	
8-44-304.1	<u>Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND</u>	N	
8-44-304.2	<u>Use emission control equipment</u>	N	
8-44-305	<u>Equipment Leaks (Exempt per 8-44-116 – Complies with Regulation 8-18)</u>	N	
8-44-403	<u>Notification Regarding Safety/Emergency Exemption</u>	N	
8-44-501	<u>Record keeping – Marine Terminals</u>	N	
8-44-501.1	<u>Record keeping – Marine Terminals; Loading Event (8-44-301) Records</u>	N	
8-44-501.2	<u>Record keeping – Marine Terminals; Ballasting Event (8-44-302) Records</u>	N	
8-44-501.3	<u>Record keeping – Marine Terminals; Venting Event (8-44-303) Records</u>	N	
8-44-503	<u>Recordkeeping - Exemptions</u>	N	
8-44-503.1	<u>Recordkeeping – Exemptions – 8-44-110</u>	N	
8-44-503.2	<u>Recordkeeping – Exemptions – 8-44-111</u>	N	
8-44-503.3	<u>Recordkeeping – Exemptions – 8-44-115</u>	N	
8-44-504	<u>Burden of proof</u>	N	
8-44-601	<u>Determination of Emission Factors and Emission Control Equipment Efficiencies</u>	N	
8-44-603	<u>Leak Determinations</u>	N	
8-44-604	<u>Flash Point Determinations</u>	N	
SIP Regulation 8 Rule 44	<u>Organic Compounds - Marine Vessel Loading Terminals (08/30/1993)</u>		

Table IV – D.1
Source-specific Applicable Requirements
Facility B2759 S55 --AMORCO WHARF TERMINAL
Unloading Only

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-44-110	<u>Exemption: loading events</u>	<u>Y</u>	
8-44-111	<u>Exemption: marine vessel fueling</u>	<u>Y</u>	
8-44-301	<u>Marine Terminal Loading Limit</u>	<u>Y</u>	
8-44-301.1	<u>Limited to 5.7 gram per cubic meter (2 lb per 1000 bbls) of organic liquid loaded, or</u>	<u>Y</u>	
8-44-301.2	<u>POC emissions reduced 95% by weight from uncontrolled conditions</u>	<u>Y</u>	
8-44-302	<u>Emission control equipment</u>	<u>Y</u>	
8-44-303	<u>Operating practice</u>	<u>Y</u>	
8-44-304	<u>Equipment Maintenance</u>	<u>Y</u>	
8-44-304.1	<u>Certified leak free, gas tight and in good working order</u>	<u>Y</u>	
8-44-304.2	<u>Loading ceases any time gas or liquid leaks are discovered</u>	<u>Y</u>	
8-44-402	<u>Safety/Emergency Operations</u>	<u>Y</u>	
8-44-402.1	<u>Rule does not require act/omission in violation of Coast Guard/other rules</u>	<u>Y</u>	
8-44-402.2	<u>Rule does not prevent act/omission for vessel safety or saving life at sea</u>	<u>Y</u>	
8-44-501	<u>Record keeping</u>	<u>Y</u>	
8-44-501.1	<u>Name and location</u>	<u>Y</u>	
8-44-501.2	<u>Responsible company</u>	<u>Y</u>	
8-44-501.3	<u>Dates and times</u>	<u>Y</u>	
8-44-501.4	<u>Name, registry of the vessel loaded and legal owner</u>	<u>Y</u>	
8-44-501.5	<u>Prior cargo carried</u>	<u>Y</u>	
8-44-501.6	<u>Type, amount of liquid cargo loaded</u>	<u>Y</u>	
8-44-501.7	<u>Condition of tanks</u>	<u>Y</u>	
8-44-502	<u>Burden of proof</u>	<u>Y</u>	
8-44-601	<u>Determination of Emissions</u>	<u>Y</u>	
8-44-602	<u>Efficiency and Mass Emission Determination (Vapor Processing System)</u>	<u>Y</u>	
8-44-603	<u>Leak Tests and Gas Tight Determinations</u>	<u>Y</u>	
40 CFR 63 Subpart Y	<u>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)</u> <u>S55 is normally used for unloading only. S55 is exempt from Subpart Y unless loading material with vapor pressure of 1.5 psia or higher.</u>		
63.560	<u>Applicability and designation of affected source</u>	<u>Y</u>	
63.560(a)	<u>Maximum Achievable Control Technology (MACT) Applicability</u>	<u>Y</u>	
63.560(a)(2)	<u>Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards</u>	<u>Y</u>	
63.560(a)(3)	<u>Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)</u>	<u>Y</u>	
63.560(b)	<u>Reasonably Achievable Control Technology (RACT) Applicability</u>	<u>Y</u>	
63.560(b)(2)	<u>Reasonably Achievable Control Technology (RACT) Applicability; Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards</u>	<u>Y</u>	
63.560(c)	<u>Comply with 40 CFR 63 Subpart A per Table 1</u>	<u>Y</u>	
63.560(e)	<u>40 CFR 63.11 General Control Device Requirements applies</u>	<u>Y</u>	

Table IV – D.1
Source-specific Applicable Requirements
Facility B2759 S55 --AMORCO WHARF TERMINAL
Unloading Only

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Table 1</u>			
<u>63.560(d)</u>	<u>Exemptions from MACT & RACT Standards</u>	<u>Y</u>	
63.560(d)(1)	Exemptions from MACT & RACT Standards – Sources are exempt from Subpart Y when loading commodities with vapor pressure less than 1.5 psia at standard conditions (20 C and atmospheric pressure)	<u>Y</u>	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	<u>Y</u>	
<u>63.560(d)(7)</u>	<u>Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y</u>	<u>Y</u>	
<u>63.561</u>	<u>Definitions</u>	<u>Y</u>	
<u>63.562</u>	<u>Standards</u>	<u>Y</u>	
<u>63.562(b)</u>	<u>Vapor collection system required</u>	<u>Y</u>	
<u>63.562(b)(2)</u>	<u>MACT for existing sources: Destruction efficiency > 97% by weight</u>	<u>Y</u>	
<u>63.565</u>	<u>Test Methods and Procedures</u>	<u>Y</u>	
<u>63.565(l)</u>	<u>Test Methods and Procedures: Emissions estimation procedures</u>	<u>Y</u>	
<u>63.567</u>	<u>Recordkeeping and reporting requirements</u>	<u>Y</u>	
<u>63.567(b)</u>	<u>Recordkeeping and reporting requirements; Notification requirements of 63.9</u>	<u>Y</u>	
<u>63.567(b)(1)</u>	<u>Recordkeeping and reporting requirements; Notification requirements; Applicability changes and source becomes subject to subpart</u>	<u>Y</u>	
<u>63.567(j)</u>	<u>Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures.</u>	<u>Y</u>	
<u>63.567(j)(4)</u>	<u>Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures; for sources subject to 63.560(a)(3); retain records of emissions estimates determined in §65.565(l) and records of actual throughputs by commodity, for 5 years.</u>	<u>Y</u>	
<u>40 CFR 63 Subpart CC</u>	<u>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</u>		
<u>63.640(a)</u>	<u>Applicability and Designation of Affected Sources</u>	<u>Y</u>	
<u>63.640(c)(6)</u>	<u>Applicability and Designation of Affected Sources: Marine Terminals</u>	<u>Y</u>	
<u>63.651</u>	<u>Marine Vessel Tank Loading Operations Provisions</u>	<u>Y</u>	
<u>63.651(a)</u>	<u>Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.567]</u>	<u>Y</u>	
<u>63.651(b)</u>	<u>Marine Vessel Tank Loading Operations Provisions; definitions</u>	<u>Y</u>	
<u>63.651(c)</u>	<u>Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report</u>	<u>Y</u>	
<u>63.651(d)</u>	<u>Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time</u>	<u>Y</u>	
<u>BAAQMD Condition-# 8077</u>			
<u>Part B2</u>	<u>Emissions – see Table A of Appendix A</u>	<u>Y</u>	
<u>Part B2A</u>	<u>Emissions Cap – annual limits</u>	<u>Y</u>	

Table IV – D.1
Source-specific Applicable Requirements
Facility B2759 S55 --AMORCO WHARF TERMINAL
Unloading Only

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Part B2B</u>	<u>Emissions Cap – monthly limits</u>	<u>Y</u>	
<u>Part B2C</u>	<u>Emissions Cap – monthly compensatory emission limits</u>	<u>Y</u>	
<u>Part B2D</u>	<u>Emissions Cap – total accumulated emissions in calendar year limit</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Recordkeeping</u>	<u>Y</u>	
<u>Appendix A.1</u>	<u>Emission points covered by the hydrocarbon limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.2</u>	<u>Emission points covered by the nitrogen oxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.3</u>	<u>Emission points covered by the sulfur oxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.4</u>	<u>Emission points covered by the carbon monoxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.5</u>	<u>Emission points covered by the particulate limits of Part B2</u>	<u>Y</u>	
<u>Appendix B</u>	<u>Data for determining emissions from marine activity</u>	<u>Y</u>	
<u>BAAQMD Condition-# 22455</u>			
<u>Part 8</u>	<u>Throughput Limit (basis: cumulative increase, offsets, toxic risk screen)</u>	<u>Y</u>	
<u>Part 10</u>	<u>Shall not transfer material received at wharf to another refinery via pipeline</u>	<u>Y</u>	
<u>Part 11</u>	<u>Prohibition on crude shipping</u>	<u>Y</u>	
<u>Part 12</u>	<u>Records</u>	<u>Y</u>	

Table IV – CD.2
Source-specific Applicable Requirements
S100 --AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8 Rule 44</u>	<u>Organic Compounds - Marine Tank Vessel Operations (12/07/2005)</u>		
<u>8-44-110</u>	<u>Exemption: small loading events</u>	<u>N</u>	
<u>8-44-111</u>	<u>Exemption: marine vessel fueling</u>	<u>N</u>	
<u>8-44-115</u>	<u>Exemption: safety/emergency operations</u>	<u>N</u>	
<u>8-44-116</u>	<u>Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305</u>	<u>N</u>	
<u>8-44-301</u>	<u>Limitations on Marine Tank Vessel Loading and Lightering</u>	<u>N</u>	
<u>8-44-301.1</u>	<u>Loading regulated organic liquid in marine tank vessel must comply with control requirements in 8-44-304</u>	<u>N</u>	

Table IV – CD.2
Source-specific Applicable Requirements
S100 – AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-301.2	<u>Loading any liquid into marine tank vessel must comply with control requirements in 8-44-304 when last load in vessel was regulated organic liquid</u>	<u>N</u>	
8-44-302	<u>Limitations on Marine Tank Vessel Ballasting in vessels where last load was regulated organic liquid</u>	<u>N</u>	
8-44-303	<u>Limitations on Marine Tank Vessel Venting for regulated organic liquids or where last load was regulated organic liquid</u>	<u>N</u>	
8-44-304	<u>Emission Control Requirements for loading (8-44-301), Ballasting (8-44-302), and Venting (8-44-303) [must comply with both requirements]</u>	<u>N</u>	
8-44-304.1	<u>Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND</u>	<u>N</u>	
8-44-304.2	<u>Use emission control equipment</u>	<u>N</u>	
8-44-305	<u>Equipment Leaks</u>	<u>N</u>	
8-44-403	<u>Notification Regarding Safety/Emergency Exemption</u>	<u>N</u>	
8-44-501	<u>Record keeping – Marine Terminals</u>	<u>N</u>	
8-44-501.1	<u>Record keeping – Marine Terminals; Loading Event (8-44-301) Records</u>	<u>N</u>	
8-44-501.2	<u>Record keeping – Marine Terminals; Ballasting Event (8-44-302) Records</u>	<u>N</u>	
8-44-501.3	<u>Record keeping – Marine Terminals; Venting Event (8-44-303) Records</u>	<u>N</u>	
8-44-501.4	<u>Name, registry of the vessel loaded and legal owner</u>	<u>Y</u>	
8-44-501.5	<u>Prior cargo carried</u>	<u>Y</u>	
8-44-501.6	<u>Type, amount of liquid cargo loaded</u>	<u>Y</u>	
8-44-501.7	<u>Condition of tanks</u>	<u>Y</u>	
8-44-502	<u>Burden of proof</u>	<u>Y</u>	
8-44-503	<u>Recordkeeping - Exemptions</u>	<u>N</u>	
8-44-503.1	<u>Recordkeeping – Exemptions – 8-44-110</u>	<u>N</u>	
8-44-503.2	<u>Recordkeeping – Exemptions – 8-44-111</u>	<u>N</u>	
8-44-503.3	<u>Recordkeeping – Exemptions – 8-44-115</u>	<u>N</u>	
8-44-504	<u>Burden of proof</u>	<u>N</u>	
8-44-601	<u>Determination of Emission Factors and Emission Control Equipment Efficiencies</u>	<u>N</u>	
8-44-603	<u>Leak Determinations</u>	<u>N</u>	
8-44-604	<u>Flash Point Determinations</u>	<u>N</u>	

Table IV – CD.2
Source-specific Applicable Requirements
S100 --AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD <u>SIP</u> Regulation 8, Rule 44	<u>Organic Compounds - Marine Vessel Loading Terminals</u> (1/4/8908/30/1993)	N	
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
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	
8-44-402	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	
<u>8-44-601</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>8-44-602</u>	<u>Efficiency and Mass Emission Determination (Vapor Processing System)</u>	<u>Y</u>	
<u>8-44-603</u>	<u>Leak Tests and Gas Tight Determinations</u>	<u>Y</u>	
<u>40 CFR 63</u> <u>Subpart Y</u>	<u>NESHAPS for Marine Vessel Loading of Organic Liquids</u> (04/20/2006)		
<u>63.560(a)</u>	<u>Maximum Achievable Control Technology (MACT) Applicability</u>	<u>Y</u>	

Table IV – CD.2
Source-specific Applicable Requirements
S100 – AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.560(a)(2)	Maximum Achievable Control Technology (MACT) Applicability: Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards	Y	
63.560(a)(3)	Maximum Achievable Control Technology (MACT) Applicability: Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)	Y	
63.560(b)	Reasonably Achievable Control Technology (RACT) Applicability	Y	
63.560(b)(2)	Reasonably Achievable Control Technology (RACT) Applicability: Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards	Y	
63.560(c)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
63.560(e) Table 1	40 CFR 63.11 General Control Device Requirements applies	Y	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)	Vapor collection system required	Y	
63.562(b)(2)	MACT for existing sources: Destruction efficiency > 97% by weight	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	

Table IV – CD.2
Source-specific Applicable Requirements
S100 – AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Part 40 CFR 63 -Subpart CC	National Emission Standards for Marine Tank Vessel Loading Operations NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)	Y	
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: Marine Terminals	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.567]	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report	Y	
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	
BAAQMD Condition-# 878			
Part 1	Emission factors (basis: cumulative increase)	Y	
Part 2	Requirement for pressure recorder/controller, related record keeping, and record retention (basis: cumulative increase)	Y	
Part 3	Leak testing requirement (basis: cumulative increase)	Y	
Part 4	Use of “Non-Vapor Recovery” emission factors (basis: cumulative increase)	Y	
Part 5	Data for determining emissions from marine activity	Y	
<u>BAAQMD</u> <u>Condition-#</u> <u>8077</u>			
<u>Part B2</u>	<u>Emissions – see Table A of Appendix A</u>	<u>Y</u>	
<u>Part B2A</u>	<u>Emissions Cap – annual limits</u>	<u>Y</u>	
<u>Part B2B</u>	<u>Emissions Cap – monthly limits</u>	<u>Y</u>	
<u>Part B2C</u>	<u>Emissions Cap – monthly compensatory emission limits</u>	<u>Y</u>	
<u>Part B2D</u>	<u>Emissions Cap – total accumulated emissions in calendar year limit</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Recordkeeping</u>	<u>Y</u>	

Table IV – CD.2
Source-specific Applicable Requirements
S100 -- AVON WHARF LOADING BERTH NO. 1
WITH A-14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Appendix A.1</u>	<u>Emission points covered by the hydrocarbon limits of Section B2</u>	<u>Y</u>	
<u>Appendix A.2</u>	<u>Emission points covered by the nitrogen oxide limits of Section B2</u>	<u>Y</u>	
<u>Appendix A.3</u>	<u>Emission points covered by the sulfur oxide limits of Section B2</u>	<u>Y</u>	
<u>Appendix A.4</u>	<u>Emission points covered by the carbon monoxide limits of Section B2</u>	<u>Y</u>	
<u>Appendix A.5</u>	<u>Emission points covered by the particulate limits of Section B2</u>	<u>Y</u>	
<u>Appendix B</u>	<u>Data for determining emissions from marine activity</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3.1)	N	
Part 2	Record Keeping (basis: Regulation 2-1-234.3.1)	N	

Table IV – DD.3
Source-specific Applicable Requirements
S101 -- TRUCK UNLOADING RACK -- TRACT 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	<u>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</u>		
<u>8-6-101</u>	<u>Description: applicability</u>	<u>Y</u>	
<u>8-6-110</u>	<u>Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia</u>	<u>Y</u>	
<u>8-6-114</u>	<u>Exemption, Maintenance and Repair</u>	<u>Y</u>	
<u>8-6-304</u>	<u>Deliveries to Storage Tanks</u>	<u>Y</u>	
<u>8-6-305</u>	<u>Delivery Vehicle Requirements</u>	<u>Y</u>	
<u>8-6-306</u>	<u>Equipment Maintenance</u>	<u>Y</u>	
<u>8-6-307</u>	<u>Operating practices</u>	<u>Y</u>	
<u>8-6-501</u>	<u>Records</u>	<u>Y</u>	
<u>8-6-502</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-6-503</u>	<u>Burden of Proof for exemptions</u>	<u>Y</u>	
<u>8-6-601</u>	<u>Efficiency and Rate Determination</u>	<u>Y</u>	

Table IV – ~~DD.3~~
Source-specific Applicable Requirements
S101 ~~--~~ TRUCK UNLOADING RACK ~~--~~ TRACT 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-6-603	<u>Analysis of Samples, True Vapor Pressure</u>	<u>Y</u>	
8-6-604	<u>Determination of Applicability</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3; Regulation 2-1-403; Regulation 2-6-503)	N	

Table IV – ~~FD.4~~
Source-specific Applicable Requirements
~~— S106-AVON WHARF LOADING BERTH NO. 3,~~
~~— S107-AVON WHARF LOADING BERTH NO. 4,~~
S108 ~~--~~ AVON WHARF LOADING BERTH NO. 5,
~~— MARINE BULK PLANT S114-AVON WHARF LOADING BERTH NO. 6~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 44	<u>Organic Compounds - Marine Tank Vessel Operations (12/07/2005)</u>		
8-44-110	<u>Exemption: small loading events</u>	<u>N</u>	
8-44-111	<u>Exemption: marine vessel fueling</u>	<u>N</u>	
8-44-115	<u>Exemption: safety/emergency operations</u>	<u>N</u>	
8-44-116	<u>Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305</u>	<u>N</u>	
8-44-301	<u>Limitations on Marine Tank Vessel Loading and Lightering</u>	<u>N</u>	
8-44-302	<u>Limitations on Marine Tank Vessel Ballasting</u>	<u>N</u>	
8-44-303	<u>Limitations on Marine Tank Vessel Venting</u>	<u>N</u>	
8-44-304	<u>Emission Control Requirements [must comply with both requirements to load, ballast, or vent involving regulated organic liquids]</u>	<u>N</u>	
8-44-304.1	<u>Emission Control Requirements for regulated organic liquids: Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND</u>	<u>N</u>	

Table IV – FD.4
Source-specific Applicable Requirements
~~S106-AVON WHARF LOADING BERTH NO. 3,~~
~~S107-AVON WHARF LOADING BERTH NO. 4,~~
S108 – -AVON WHARF LOADING BERTH NO. 5;
~~MARINE BULK PLANT S114-AVON WHARF LOADING BERTH NO. 6~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-304.2	<u>Emission Control Requirements for regulated organic liquids: Use emission control equipment</u>	N	
8-44-305	<u>Equipment Leaks</u>	N	
8-44-403	<u>Notification Regarding Safety/Emergency Exemption</u>	N	
8-44-501	<u>Record keeping – Marine Terminals</u>	N	
8-44-501.1	<u>Record keeping – Marine Terminals; Loading Event Records</u>	N	
8-44-501.2	<u>Record keeping – Marine Terminals; Ballasting Event Records</u>	N	
8-44-501.3	<u>Record keeping – Marine Terminals; Venting Event Records</u>	N	
8-44-503	<u>Recordkeeping - Exemptions</u>	N	
8-44-503.1	<u>Recordkeeping – Exemptions – 8-44-110</u>	N	
8-44-503.2	<u>Recordkeeping – Exemptions – 8-44-111</u>	N	
8-44-503.3	<u>Recordkeeping – Exemptions – 8-44-115</u>	N	
8-44-501.4	<u>Name, registry of the vessel loaded and legal owner</u>	Y	
8-44-501.5	<u>Prior cargo carried</u>	Y	
8-44-501.6	<u>Type, amount of liquid cargo loaded</u>	Y	
8-44-501.7	<u>Condition of tanks</u>	Y	
8-44-502	<u>Burden of proof</u>	Y	
8-44-504	<u>Burden of proof</u>	N	
8-44-601	<u>Determination of Emission Factors and Emission Control Equipment Efficiencies</u>	N	
8-44-603	<u>Leak Determinations</u>	N	
8-44-604	<u>Flash Point Determinations</u>	N	
BAAQMD SIP Regulation 8, Rule 44	Organic Compounds - Marine Vessel Loading Terminals (4/4/8908/30/1993)	N	
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
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	

Table IV – ~~FD.4~~
Source-specific Applicable Requirements

~~S106-AVON WHARF LOADING BERTH NO. 3,~~

~~S107-AVON WHARF LOADING BERTH NO. 4,~~

~~S108--AVON WHARF LOADING BERTH NO. 5,~~

~~MARINE BULK PLANT S114-AVON WHARF LOADING BERTH NO. 6~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-44-402	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	
8-44-601	<u>Determination of Emissions</u>	<u>Y</u>	
8-44-602	<u>Efficiency and Mass Emission Determination (Vapor Processing System)</u>	<u>Y</u>	
8-44-603	<u>Leak Tests and Gas Tight Determinations</u>	<u>Y</u>	
40 CFR 63 Subpart Y	<u>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)</u>		
<u>63.560(a)</u>	<u>Maximum Achievable Control Technology (MACT) Applicability</u>	<u>Y</u>	
<u>63.560(a)(2)</u>	<u>Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards</u>	<u>Y</u>	
<u>63.560(a)(3)</u>	<u>Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)</u>	<u>Y</u>	
<u>63.560(b)</u>	<u>Reasonably Achievable Control Technology (RACT) Applicability</u>	<u>Y</u>	
<u>63.560(b)(2)</u>	<u>Reasonably Achievable Control Technology (RACT) Applicability; Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards</u>	<u>Y</u>	
<u>63.560(c)</u>	<u>Comply with 40 CFR 63 Subpart A per Table 1</u>	<u>Y</u>	
<u>63.560(e)</u>	<u>40-CFR 63.11 General Control Device Requirements applies Table 1</u>	<u>Y</u>	

Table IV – ~~FD.4~~
Source-specific Applicable Requirements

~~S106-AVON WHARF LOADING BERTH NO. 3,~~

~~S107-AVON WHARF LOADING BERTH NO. 4,~~

S108 – AVON WHARF LOADING BERTH NO. 5;

~~MARINE BULK PLANT S114-AVON WHARF LOADING BERTH NO. 6~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.560(d)(1)	Exemptions from MACT & RACT Standards – Sources are exempt from Subpart Y when loading commodities with vapor pressure less than 1.5 psia at standard conditions (20 C and atmospheric pressure)	Y	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)	Vapor collection system required	Y	
63.562(b)(2)	MACT for existing sources: Destruction efficiency > 97% by weight	Y	
63.565	Test Methods and Procedures	Y	
63.565(l)	Test Methods and Procedures: Emissions estimation procedures	Y	
63.567	Recordkeeping and reporting requirements	Y	
63.567(b)	Recordkeeping and reporting requirements; Notification requirements of 63.9	Y	
63.567(b)(1)	Recordkeeping and reporting requirements; Notification requirements; Applicability changes and source becomes subject to subpart	Y	
63.567(j)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures.	Y	
63.567(j)(4)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures; for sources subject to 63.560(a)(3); retain records of emissions estimates determined in §65.565(l) and records of actual throughputs by commodity, for 5 years.	Y	
NESHAPS Part 40 CFR 63 Subpart CC	NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) National Emission Standards for Marine Tank Vessel Loading Operations	Y	
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: Marine Terminals	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions: comply with 63 Subpart Y [63.560 through 63.567]	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report	Y	
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	

Table IV – FD.4
Source-specific Applicable Requirements
~~S106-AVON WHARF LOADING BERTH NO. 3,~~
~~S107-AVON WHARF LOADING BERTH NO. 4,~~
S108 – -AVON WHARF LOADING BERTH NO. 5;
~~MARINE BULK PLANTS114-AVON WHARF LOADING BERTH NO. 6~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 8077</u>			
<u>Part B2</u>	<u>Emissions – see Table A of Appendix A</u>	<u>Y</u>	
<u>Part B2A</u>	<u>Emissions Cap – annual limits</u>	<u>Y</u>	
<u>Part B2B</u>	<u>Emissions Cap – monthly limits</u>	<u>Y</u>	
<u>Part B2C</u>	<u>Emissions Cap – monthly compensatory emission limits</u>	<u>Y</u>	
<u>Part B2D</u>	<u>Emissions Cap – total accumulated emissions in calendar year limit</u>	<u>Y</u>	
<u>Part B5</u>	<u>Reporting and Recordkeeping</u>	<u>Y</u>	
<u>Appendix A.1</u>	<u>Emission points covered by the hydrocarbon limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.2</u>	<u>Emission points covered by the nitrogen oxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.3</u>	<u>Emission points covered by the sulfur oxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.4</u>	<u>Emission points covered by the carbon monoxide limits of Part B2</u>	<u>Y</u>	
<u>Appendix A.5</u>	<u>Emission points covered by the particulate limits of Part B2</u>	<u>Y</u>	
<u>Appendix B</u>	<u>Data for determining emissions from marine activity</u>	<u>Y</u>	
<u>BAAQMD Condition # 19528</u>			
<u>Part 1</u>	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>Y</u>	

Table IV – D.5
Source-specific Applicable Requirements
S115 – BULK PLANT TRUCK/RAIL
CAUSTIC WASTE LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
<u>BAAQMD Regulation 8 Rule 6</u>	<u>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</u>		

Table IV – D.5
Source-specific Applicable Requirements
S115 – BULK PLANT TRUCK/RAIL
CAUSTIC WASTE LOADING RACK

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Notes</u>
<u>8-6-101</u>	<u>Description: applicability</u>	<u>Y</u>	
<u>8-6-110</u>	<u>Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia</u>	<u>Y</u>	
<u>8-6-114</u>	<u>Exemption, Maintenance and Repair</u>	<u>Y</u>	
<u>8-6-302</u>	<u>Bulk plant limitations</u>	<u>Y</u>	
<u>8-6-305</u>	<u>Delivery vehicle requirements</u>	<u>Y</u>	
<u>8-6-306</u>	<u>Equipment Maintenance</u>	<u>Y</u>	
<u>8-6-307</u>	<u>Operating practices</u>	<u>Y</u>	
<u>8-6-501</u>	<u>Records</u>	<u>Y</u>	
<u>8-6-502</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-6-503</u>	<u>Burden of Proof for exemptions</u>	<u>Y</u>	
<u>8-6-601</u>	<u>Efficiency and Rate Determination</u>	<u>Y</u>	
<u>8-6-603</u>	<u>Analysis of Samples, True Vapor Pressure</u>	<u>Y</u>	
<u>8-6-604</u>	<u>Determination of Applicability</u>	<u>Y</u>	

Table IV – D.6
Source-specific Applicable Requirements
S126, S127 – EXEMPT LPG LOADING RACKS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8 Rule 6</u>	<u>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</u>		
<u>8-6-101</u>	<u>Description: applicability</u>	<u>Y</u>	
<u>8-6-117</u>	<u>Exemption, Liquefied Organic Gases</u>	<u>Y</u>	
<u>8-6-503</u>	<u>Burden of Proof</u>	<u>Y</u>	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED~~ BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
<u>Applicable to Non-Gasoline Loading Only</u>			
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk terminal limitations	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
<u>Applicable to Gasoline Loading Only</u>			
BAAQMD Regulation 8, Rule 33	Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/15/2009)		
8-33-101	Description: applicability	N Y	
8-33-112	Exemption: Tank Gauging and Inspection	N	
8-33-113	Exemption: Maintenance and Repair	N Y	
8-33-114	Exemption, CARB Certification	N	
8-33-116	Limited Exemption, Source Test Requirements	N	
8-33-205	Liquid Leak Free: < 3 drops/minute or 10 mL per disconnect	N	
8-33-216	Vapor Leak Free: < 3,000 ppm or 6% of LEL	N	
8-33-301	Final gasoline bulk terminal limitations	N Y	
8-33-301.1	VOC limitation: 0.08 lb/1000 gallons of organic liquid loaded	N	
8-33-301.2	VOC limitation: 0.04 lb/1000 gallons of organic liquid loaded	N	01/10/2011
8-33-302	Vapor Recovery System requirement	Y	
8-33-303	Bottom fill requirement	Y N	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~A~~ BATED BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
8-33-304	Delivery vehicle Gasoline Cargo Tank Requirements	N Y	
8-33-304.1	Vapor Integrity Requirement	N Y	
8-33-304.2	Vapor recovery requirement	N Y	
8-33-304.4	Purging requirement	N Y	
<u>8-33-304.5</u>	<u>Drainage Requirement</u>	<u>N</u>	
<u>8-33-304.6</u>	<u>Vapor Tight Requirement</u>	<u>N</u>	
<u>8-33-304.7</u>	<u>Vapor Leak Requirement</u>	<u>N</u>	
<u>8-33-304.8</u>	<u>Liquid Leak Requirements</u>	<u>N</u>	
<u>8-33-304.9</u>	<u>Compatible Connectors Requirement</u>	<u>N</u>	
<u>8-33-304.10</u>	<u>Vapor Hose Storage Requirement</u>	<u>N</u>	<u>01/10/2011</u>
<u>8-33-304.11</u>	<u>Maintenance Requirement</u>	<u>N</u>	
8-33-305	Gasoline Bulk Terminal Equipment Maintenance and Repair	N Y	
<u>8-33-305.1</u>	<u>Good Working Order</u>	<u>N</u>	
<u>8-33-305.2</u>	<u>Transfer retained gasoline prior to maintenance, openings in a closed position</u>	<u>N</u>	<u>01/10/2012</u>
<u>8-33-305.3</u>	<u>Leak free portable maintenance containers</u>	<u>N</u>	
<u>8-33-305.4</u>	<u>Backpressure monitors</u>	<u>N</u>	
8-33-306	Operating practices	N Y	
8-33-307	Loading practices	N Y	
<u>8-33-307.1</u>	<u>Compatible Connectors Requirement</u>	<u>N</u>	
<u>8-33-307.2</u>	<u>CARB-certified vapor recovery system requirement</u>	<u>N</u>	
<u>8-33-308</u>	<u>Vapor Storage Tank Requirements</u>	<u>N</u>	
<u>8-33-308.1</u>	<u>TOC emissions in airspace above vapor storage tank diaphragm: < 3,000 ppm (C1)</u>	<u>N</u>	
<u>8-33-308.2</u>	<u>Monitor TOC weekly</u>	<u>N</u>	<u>1/10/2011</u>
8-33-309	Gasoline Bulk Terminal Vapor Recovery System Requirements— Loading Rack	N Y	
<u>8-33-309.1</u>	<u>CARB Certified Vapor Recovery System requirement</u>	<u>N</u>	
<u>8-33-309.2</u>	<u>Cargo tank/vapor hose interface gauge pressure requirement</u>	<u>N</u>	
<u>8-33-309.3</u>	<u>Good working order</u>	<u>N</u>	
<u>8-33-309.5</u>	<u>Vapor Leak Requirement</u>	<u>N</u>	
<u>8-33-309.6</u>	<u>Liquid Leak Requirements</u>	<u>N</u>	
<u>8-33-309.7</u>	<u>Block or vapor check valve requirement</u>	<u>N</u>	<u>01/10/2011</u>
<u>8-33-309.8</u>	<u>Daily inspection of P/V valves, liquid fill, and vapor hose connections</u>	<u>N</u>	<u>01/10/2011</u>
<u>8-33-309.9</u>	<u>Vapor hose hanger requirement</u>	<u>N</u>	<u>01/10/2011</u>

Table IV – ~~AMD.7~~
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED BY A14 VAPOR RECOVERY~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
8-33-309.10	<u>Install backpressure monitor</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.11	<u>Backpressure monitoring and limiting system requirement</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.11.1	<u>Option 1: Install an alarm and recording system</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.11.2	Option 2: Install an automatic lockout system	N	01/10/2011
8-33-309.11.3	Option 3: Install an alternate, equivalent system	N	01/10/2011
8-33-309.12	<u>Backpressure exceedance - shutdown and notification requirement</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.13	<u>Parametric monitoring requirement</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.13.1	Option 1: Continuously monitor non-methane organic compound concentrations at outlet of the vapor recovery system	N	01/10/2011
8-33-309.13.2	<u>Option 2: Alternate parametric monitoring protocol</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.14	<u>Monitor parametric limits and parametric exceedance notification</u>	<u>N</u>	<u>01/10/2011</u>
8-33-309.15	<u>P/V sample line requirement</u>	<u>N</u>	<u>01/10/2011</u>
8-33-401	Equipment installation and modification	<u>N</u>	
8-33-401.1	<u>Comply with Reg. 2, Rule 1</u>	<u>N</u>	
8-33-401.2	<u>Submit CARB certification application before undertaking:</u>	<u>N</u>	
8-33-401.2.1	<u>Operation of a new or replacement vapor recovery system</u>	<u>N</u>	
8-33-401.2.2	<u>Replacement or modification of equipment that will exceed CARB throughput limits</u>	<u>N</u>	
8-33-401.2.3	<u>Operation of a vapor recovery system in a non-certified CARB mode</u>	<u>N</u>	
8-33-401.2.4	<u>Submittal of an application for a revised BAAQMD Permit to Operate</u>	<u>N</u>	
8-33-403	<u>Bulk Terminal Monitoring, Inspection, Notification and Reporting Requirements – develop a plan that meets the following requirements</u>	<u>N</u>	<u>10/01/2010</u>
8-33-403.1	<u>40 CFR Part 60, Subpart XX, §60.502</u>	<u>N</u>	<u>10/01/2010</u>
8-33-403.2	<u>40 CFR Part 63, Subpart R, §63.424, §63.425, §63.427, §63.428</u>	<u>N</u>	<u>10/01/2010</u>
8-33-403.3	40 CFR Part 63, Subpart BBBBBB, §63.11087, §63.11088, §63.11089, §63.11092, §63.11093, §63.11094 and §63.11095	N	
8-33-403.4	<u>Sections 8-33-309.8, 309.11, 309.12, and 309.14</u>	<u>N</u>	<u>10/01/2010</u>
8-33-501	<u>Burden of proof (exemptions)</u>	<u>N</u>	
8-33-502	<u>Vapor Storage Tank Emissions Records</u>	<u>N</u>	
8-33-504	<u>Pressure/Vacuum Valve, Liquid Fill and Vapor Hose Connector Leak Check Records</u>	<u>N</u>	<u>01/10/2011</u>
8-33-505	<u>Loading Rack Backpressure Records</u>	<u>N</u>	<u>01/10/2011</u>
8-33-506	<u>Parametric Correlation Records</u>	<u>N</u>	<u>01/10/2011</u>

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED~~ BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
8-33-507	Parametric Variable Monitoring Records	N	01/10/2011
8-33-601	Emission Rate Determination (Vapor Processing Systems)	NY	
8-33-603	Back Pressure Determination from Vapor Recovery Systems	N	
8-33-604	Vapor Tight (Gasoline Cargo Tanks)	N	
8-33-605	Analysis of Samples	NY	
8-33-606	Vapor Leak Concentration Determination	N	
<u>SIP Regulation 8 Rule 33</u>	<u>Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/03/95)</u>		
8-33-101	Description: Applicability	Y	
8-33-113	Exemption: Maintenance and Repair	Y	
8-33-301	Final gasoline bulk terminal limitations	Y	
8-33-303	Bottom fill requirement	Y	
8-33-304	Delivery vehicle requirements	Y	
8-33-304.1	Vapor Integrity Requirement	Y	
8-33-304.2	Vapor Recovery Requirement	Y	
8-33-304.4	Purging requirement	Y	
8-33-305	Equipment Maintenance	Y	
8-33-306	Operating Practices	Y	
8-33-307	Loading Practices	Y	
8-33-309	Vapor Recovery System Requirements – Loading Rack	Y	
8-33-401	Equipment installation and modification	Y	
8-33-501	Burden of proof (exemptions)	Y	
8-33-601	Emission Rate Determination (Vapor Processing Systems)	Y	
8-33-605	Analysis of Samples	Y	
<u>40 CFR 63 Subpart CC</u>	<u>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</u>		
63.640(a)	Applicability and designation of affected source; petroleum refining process units and to related emissions points specified in paragraphs (c)(5) through (c)(8)	Y	
63.640(a)(1)	At major source	Y	
63.640(a)(2)	Contain HAPs listed in Table 1	Y	
63.640(c)	Emission points included in affected source	Y	
63.640(c)(5)	Gasoline Loading Racks	Y	
63.640(d)	Emission points excluded from affected source	Y	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED BY A14 VAPOR RECOVERY~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	
63.650	Gasoline loading rack provisions	Y	
63.650(a)	Refinery Gasoline loading rack shall comply with 40 CFR 63 Subpart R §§63.421, 63.422 (a) through (c) and (e), 63.425 (a) through (c) and (i), 63.425 (e) through (h), 63.427 (a) and (b), and 63.428 (b), (c), (g)(1), (h)(1) through (h)(3), and (k).	Y	
40 CFR 63 Subpart R	<u>NESHAPS for Siource Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/22/2008)</u> <u>(Subject only to sections that apply to truck loading operations as referenced from 40 CFR 63 Subpart CC, 63.560(a))</u>	Y	
63.420(a)	Applicability	Y	
63.420(h)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
Table 1 of Subpart R	40 CFR 63.11 (a), (b), (c), (d) and (e) apply	Y	
63.420(i)	<u>Exemption, Bulk Gasoline Terminals Subject to 40 CFR 63 Subpart CC, unless specified in Subpart CC</u>	Y	
63.421	Definitions	Y	
63.422(a)	<u>Comply with 60.502, except not (b), (c), and (j)</u>	Y	
63.422(b)	Emissions shall not exceed 10 milligrams of total organic compounds per liter of gasoline loaded(0.0834 lb/kgal)	Y	
63.422(c)	<u>Comply with 60.502(e)</u>	Y	
63.422(e)	Alternative to 60.502(h) and (i) [cargo truck loading pressure and PV vent settings]	Y	
63.425	Test Methods and procedures	Y	
63.425(e)	Annual certification test — gasoline cargo tanks [conducted by cargo truck owner]	Y	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED~~ BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
63.4 25(f)	Leak detection test (Method 21) – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.4 25(g)	N2 pressure decay field test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.4 25(h)	Continuous performance pressure decay test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.4 27(a)	Continuous monitoring system requirements	Y	
63.4 27(b)	Vapor processing system requirements	Y	
63.428	Reporting and Recordkeeping requirements	Y	
63.428(b)	Gasoline cargo tank test results (can comply with alternative requirement in 63.428(k))	Y	
63.428(g)	Semiannual report	Y	
63.428(g)(1)	Semiannual report; Each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility	Y	
63.428(h)	Excess emissions report (required whether or not a CMS is installed at the facility)	Y	
63.428(h)(2)	Each instance of a non vapor-tight gasoline cargo tank loading at the facility in which the owner or operator failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.	Y	
63.428(h)(3)	Each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with §63.422(c)(2).	Y	
63.428(k)	Alternatives to keeping records at the terminal of each gasoline cargo tank test result as required in paragraph 63.428(b) :	Y	
63.4 28(k)(1)	Alternative 1: An electronic copy of each record is instantly available at the terminal	Y	
63.428(k)(2)	Alternative 2: For facilities that use a terminal automation system to prevent gasoline cargo tanks that do not have valid cargo tank vapor tightness documentation from loading (e.g., via a card lock-out system), a copy of the documentation is available for inspectors within a mutually agreeable time frame.	Y	
40 CFR 60 Subpart XX	NSPS – Bulk Gasoline Terminals (Subject only to Section 60.502 as referenced from 40 CFR 63 Subpart R, 63.422(a))		
60.502	Standards for VOC	Y	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK/~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED~~ BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
60.502(a)	Vapor Collection system requirement	Y	
60.502(b)	Emissions shall not to exceed 35 milligrams of total organic compounds per liter of gasoline loaded	Y	
60.502(d)	Emissions from one loading rack can not pass to another loading rack	Y	
60.502(e)	Requirements for ensuring only vapor-tight gasoline tank trucks are loaded	Y	
60.502(f)	Truck and loading rack vapor collection equipment must be compatible	Y	
60.502(g)	Owner/operator shall ensure truck and loading rack vapor collection equipment is connected	Y	
60.502(h)	Pressure vacuum valve set point requirements Pressure limit in delivery tank	Y	
60.502(i)	Monthly inspection requirements pressure vacuum valve Pressure-vacuum valve set point requirements	Y	
Applicable to All Loading Events			
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)		
BAAQMD Condition # 21849			
Part 1	Final fugitive count (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 2	Correct offsets if necessary (basis: offsets)	Y	
Part 3	Light hydrocarbon valves shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	
Part 4	Light hydrocarbon flanges and connectors shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	
Part 5	Light hydrocarbon pump seals shall be BACT compliant, POC's shall not exceed 500 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	

Table IV – AMD.7
Source-specific Applicable Requirements
S1025-BULK PLANT TRUCK ~~RAIL~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
WITH ~~ABATED~~ BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date/Notes
Part 6	Light hydrocarbon pressure relief valves shall vent back to the refinery fuel gas system or abatement with POC capture and destruction of 98% by weight (basis: BACT, Reg 8-28, toxics risk screen)	N	
Part 7	Integrate all new fugitives in organic service into the facility fugitive equipment monitoring and repair program (basis: BACT, Reg 8-18)	N	
Part 8	Apply for proper certification from CARB for A-14 prior to startup (basis: Reg. 8-33-301, 302)	Y	
Part 9	Throughput limits (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 10	Material to be transferred (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 11	Limit of 0.08 lb POC per 1000 gal of material transferred: a) vent to S-613 or A-14 b) sample line from pressure-vacuum valves c) pressure switch at knockout pot, V-61 d) source tests (basis: cumulative increase, toxics risk screen, reg. 8-33-301, Reg. 1-238, BACT)	Y	
Part 12	Records and reporting	Y	

Table IV – AMaD.8
Source-specific Applicable Requirements
S1504 – ~~BULK PLANT ETHANOL UNLOADING RACK~~
S1528 – ALKYLATE RAILCAR UNLOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Regulation 8, Rule 6	Organic Compounds, Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)		
<u>8-6-101</u>	<u>Description: applicability</u>	<u>Y</u>	
<u>8-6-114</u>	<u>Exemption, Maintenance and Repair</u>	<u>Y</u>	
8-6-301	Bulk terminal limitations	Y	
8-6-302	Bulk plant limitations	Y	
8-6-302.1	Vapor Recovery Requirement	Y	

Table IV – AMaD.8
Source-specific Applicable Requirements
S1504 – BULK PLANT ETHANOL UNLOADING RACK
S1528 – ALKYLATE RAILCAR UNLOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
8-6-302.2	Submerged Fill Requirement	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
<u>8-6-502</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-6-503</u>	<u>Burden of Proof for exemptions</u>	<u>Y</u>	
<u>8-6-601</u>	<u>Efficiency and Rate Determination</u>	<u>Y</u>	
<u>8-6-603</u>	<u>Analysis of Samples, True Vapor Pressure</u>	<u>Y</u>	
<u>8-6-604</u>	<u>Determination of Applicability</u>	<u>Y</u>	
<u>BAAQMD Condition 13605</u>	<u>Applies to S1528 only</u>		
<u>Part 1</u>	<u>Throughput limitations (basis: cumulative increase)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>BAAQMD Condition-# 21849</u>	<u>Applies to S1504 only</u>		
Part 1	Final fugitive count (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 2	Correct offsets if necessary (basis: offsets)	Y	
Part 3	Light hydrocarbon valves shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	
Part 4	Light hydrocarbon flanges and connectors shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	
Part 5	Light hydrocarbon pump seals shall be BACT compliant, POC's shall not exceed 500 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y	
Part 6	Light hydrocarbon pressure relief valves shall vent back to the refinery fuel gas system or abatement with POC capture and destruction of 98% by weight (basis: BACT, Reg 8-28, toxics risk screen)	Y	
Part 7	Integrate all new fugitives in organic service into the facility fugitive equipment monitoring and repair program (basis: BACT, Reg 8-18)	Y	
Part 13	Throughput limits (basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 14	Material throughput (basis: cumulative increase, offsets, toxic risk screen)	Y	

Table IV – AMaD.8
Source-specific Applicable Requirements
S1504 – BULK PLANT ETHANOL UNLOADING RACK
S1528 – ALKYLATE RAILCAR UNLOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
Part 15	Records <u>(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)</u>	Y	

Table IV – D.9
Source-specific Applicable Requirements
S1525 NON-RETAIL SERVICE STATION 1 NOZZLE VEHICLE GASOLINE DISPENSING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD</u> <u>Regulation 8</u> <u>Rule 7</u>	<u>Organic Compounds - Gasoline Dispensing Facilities (11/17/1999)</u>		
<u>8-7-113</u>	<u>Tank Gauging and Inspection Exemption</u>	<u>Y</u>	
<u>8-7-301</u>	<u>Phase I Requirements</u>	<u>Y</u>	
<u>8-7-301.1</u>	<u>Requirement for CARB certified Phase I Vapor Recovery System</u>	<u>Y</u>	
<u>8-7-301.2</u>	<u>Install Phase I equipment per CARB Requirements and meet Phase I vapor recovery efficiency standards</u>	<u>Y</u>	
<u>8-7-301.3</u>	<u>Requirement for submerged fill pipe</u>	<u>Y</u>	
<u>8-7-301.5</u>	<u>Maintain Phase I equipment per manufacturer and/or CARB Executive Order</u>	<u>Y</u>	
<u>8-7-301.6</u>	<u>Leak-Free, Vapor-Tight</u>		
<u>8-7-301.7</u>	<u>Requirement for CARB-certified poppetted fitting on vapor return</u>	<u>Y</u>	
<u>8-7-301.8</u>	<u>Coaxial Hose Prohibition</u>	<u>Y</u>	
<u>8-7-301.9</u>	<u>Requirement for CARB-certified anti-rotational coupler or swivel adapter</u>	<u>Y</u>	
<u>8-7-301.10</u>	<u>Requirement for Phase I vapor recovery system rate</u>	<u>Y</u>	
<u>8-7-301.12</u>	<u>Requirement for drain valves to be permanently plugged</u>	<u>Y</u>	
<u>8-7-301.13</u>	<u>Phase I Vapor Recovery System – Vapor Tightness Test</u>	<u>Y</u>	
<u>8-7-302</u>	<u>Phase II Requirements</u>	<u>Y</u>	
<u>8-7-302.1</u>	<u>Requirement for CARB-Certified Phase II System</u>	<u>Y</u>	
<u>8-7-302.2</u>	<u>Maintenance of Phase II System per CARB Requirements</u>	<u>Y</u>	
<u>8-7-302.3</u>	<u>Maintenance of All Equipment as Specified by Manufacturer</u>	<u>Y</u>	
<u>8-7-302.4</u>	<u>Repair of Defective Parts Within 7 Days</u>	<u>Y</u>	

Table IV – D.9
Source-specific Applicable Requirements
S1525 NON-RETAIL SERVICE STATION 1 NOZZLE-VEHICLE GASOLINE DISPENSING

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks required on bellows-equipped vapor recovery nozzles	Y	
8-7-302.7	Built-In Vapor Check Valve required on vapor recovery nozzle on balance system	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose Prohibition	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing requirements	Y	
8-7-302.12	Liquid Retainment Limit and CARB test procedure	Y	
8-7-302.13	Spitting Limit and CARB test procedure	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	CARB Certification requirements for New or Modified Phase II Installations	Y	
8-7-313.1	CARB certification test emission limit on nozzle fill interface, Storage tank vent pipes and pressure-related fugitives	Y	
8-7-313.2	CARB certification test emission limit on spillage	Y	
8-7-313.3	CARB certification test emission limit on liquid retain and spitting	Y	
8-7-316	Pressure Vacuum Valve Requirement, Aboveground Storage Tanks and Vaulted Below-Grade Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Recordkeeping Requirements	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-602	Determination of Equipment in Compliance with Vapor Tightness requirements	Y	

Table IV – D.9
Source-specific Applicable Requirements
S1525 NON-RETAIL SERVICE STATION 1 NOZZLE-VEHICLE GASOLINE DISPENSING

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-7-603	<u>Determination of Equipment in Compliance with Phase I Vapor Recovery Efficiency</u>	<u>Y</u>	
8-7-604	<u>Determination of Equipment in Compliance with Liquid Removal Requirements</u>	<u>Y</u>	
8-7-606	<u>Determination of Applicability</u>	<u>Y</u>	
<u>BAAQMD Condition 16516</u>			
<u>Part 1</u>	<u>Conduct Static Pressure Performance Test (Leak Test) ST-38 annually.</u>	<u>Y</u>	
<u>Part 2</u>	<u>Notify BAAQMD Source Test 48 hours before source tests. Submit test results within 30 days in specified format.</u>	<u>Y</u>	
<u>BAAQMD Condition 24171</u>			
<u>Part 1</u>	<u>Phase I equipment installation requirements</u>	<u>Y</u>	
<u>Part 2</u>	<u>Tank and Phase II equipment installation requirements</u>	<u>Y</u>	
<u>Part 3</u>	<u>Initial Leak Test requirement</u>	<u>Y</u>	
<u>Part 4</u>	<u>Initial Leak Test notification and test results submittal requirements</u>	<u>Y</u>	
<u>BAAQMD Condition 24172</u>			
<u>Part 1</u>	<u>Annual throughput limit for S1525 (basis: District Toxic Risk Management Policy)</u>	<u>Y</u>	

SECTION E SOLIDS HANDLING

Table IV - BE.1
Source-specific Applicable Requirements
S97-CATALYST FINES HOPPER
S98-FCCU: CATALYST FINES HOPPER
S99-FCCU: CATALYST FINES HOPPER
ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; and Visible Emissions (12/19/90)-General Requirements (12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	Y N	
6-1-305	Visible Particles	Y N	
6-1-310	Particulate Weight Limitation	Y N	
<u>6-1-311</u>	<u>General Operations</u>	<u>N</u>	
6-1-401	Appearance of Emissions	Y N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-311</u>	<u>General Operations</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Condition-# 19528			
Part 1	Through limit (basis: Regulation 2-1-234.3; Regulation 2-1-403 Regulation 2-6-503)	Y	
Part 13	Monitoring <u>for A3/A4</u> (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	
Part 13A	Monitoring <u>for A3/A4</u> (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	

Table IV - BE.1
Source-specific Applicable Requirements
S97-CATALYST FINES HOPPER
S98-FCCU: CATALYST FINES HOPPER
S99-FCCU:CATALYST FINES HOPPER
ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 22150</u>	<u>When abated by A30</u>		
<u>Part 1</u>	<u>Continuous ESP opacity monitoring for assurance of compliance with Regulations 6-310. (basis: Regulation 6-310, 2-6-503)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Opacity limit: Each time the opacity exceeds the established range of compliance, the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The source test shall be within 45 days of the detection of the exceedance.(basis: Regulation 2-6-503)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Exceedances of parametric compliance range are deviations and shall be reported as deviations in all Title V reports. (basis: Regulation 2-6-503)</u>	<u>N</u>	

Table IV – JE.2
Source-specific Applicable Requirements
S659- COKE STORAGE , S660- COKE STORAGE,
ABATED BY A-9 ~~COKE~~ PRECIPITATOR BAGHOUSE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/99)(12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	Y <u>N</u>	
6-1-305	Visible Particles	<u>N</u> Y	
6-1-310	Particulate Weight Limitation	<u>N</u> Y	
6-1-311	General Operations (process weight rate limitation)	<u>N</u> Y	
6-1-401	Appearance of Emissions	<u>N</u> Y	

Table IV – ~~JE.2~~
Source-specific Applicable Requirements
S659- COKE STORAGE , S660- COKE STORAGE,
ABATED BY A-9 ~~COKE PRECIPITATOR~~BAGHOUSE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
Part 14a	Monitoring (basis: Regulation 6-1-302)	Y	
BAAQMD Condition-# 20682	Operation in Fluid Coke Service		
Part 1	S659 and S660 shall be abated by A-9 at all times petroleum coke transfer operations occur	Y	
Part 2	Total throughput limit	Y	
Part 3	Recordkeeping	Y	
BAAQMD Condition-# 23129	Operation in Delayed Coke Service		
Part 38	Ringelmann Number 1 Limitation, Public Nuisance Prohibition	Y	
Part 39	S659 and S660 shall be abated by A-9 at all times. PM limit for A-9. (basis: cumulative increase)	Y	
Part 40	A-9 failure warning device (basis: cumulative increase)	Y	
Part 41	A-9 air flow (basis: cumulative increase)	Y	
Part 42	Recordkeeping	Y	

Table IV – JaE.3
Source-specific Applicable Requirements
S809 – COKER SLURRY SETTLER ABATED BY A6 SCRUBBER
S810-FLUID COKE PILE LOADING SYSTEM,
S821-FLUID COKE STORAGE PILE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements -and Visible Emissions (12/19/90 (12/05/2007))		
6-1-301	Ringelmann Number 1 Limitation	Y N	
6-1-305	Visible Particles	N Y	
6-1-310	Particulate Weight Limitation	N Y	
6-1-311	General Operations (process weight rate limitation)	N Y	
6-1-401	Appearance of Emissions	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Condition-# 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
Part 14	Monitoring (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	

Table IV – RE.4
Source-specific Applicable Requirements
S846-No. 3 HDS COOLING TOWER,
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER,
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER,
S979-No. 2 FEED PREP COOLING TOWER,
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER,
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER,
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter and Visible Emissions (12/90); <u>General Requirements (12/05/2007)</u>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-311</u>	<u>General Operations</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 4	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – RE.4
Source-specific Applicable Requirements
S846-No. 3 HDS COOLING TOWER,
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER,
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER,
S979-No. 2 FEED PREP COOLING TOWER,
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER,
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER,
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 19199</u>	<u>Section D – Applies to S975 only</u> <u>Section E – Applies to S982 only</u>		
<u>Part D1</u>	<u>S975 Water recirculation rate limits (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part D2</u>	<u>S975 Water recirculation rate test (basis: cumulative increase, offsets, BACT)</u>	<u>N</u>	
<u>Part D3</u>	<u>S975 Total dissolved solids content limit (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part D4</u>	<u>S975 Quarterly analysis: total dissolved solids (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part D5</u>	<u>S975 POC concentration limit and test method (basis: BACT)</u>	<u>Y</u>	
<u>Part D6</u>	<u>S975 Weekly POC analysis (basis BACT)</u>	<u>Y</u>	
<u>Part D7</u>	<u>S975 District shall approve sample point (basis: BACT)</u>	<u>Y</u>	
<u>Part D8</u>	<u>S975 Record keeping (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part E1</u>	<u>S982 Water recirculation rate limits (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>Part E2</u>	<u>S982 Water recirculation rate test (basis: cumulative increase, offsets, BACT)</u>	<u>N</u>	
<u>Part E3</u>	<u>S982 Total dissolved solids content limit limits (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>Part E4</u>	<u>S982 Quarterly analysis: total dissolved solids (basis: cumulative increase, offsets)</u>	<u>Y</u>	

Table IV – RE.4
Source-specific Applicable Requirements
S846-No. 3 HDS COOLING TOWER,
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER,
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER,
S979-No. 2 FEED PREP COOLING TOWER,
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER,
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER,
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part E5</u>	<u>S982 POC concentration limit and test method (basis: BACT)</u>	<u>Y</u>	
<u>Part E6</u>	<u>S982 Weekly POC analysis (basis BACT)</u>	<u>Y</u>	
<u>Part E7</u>	<u>S982 District shall approve sample point (basis: BACT)</u>	<u>Y</u>	
<u>Part E8</u>	<u>S982 Record keeping (basis: cumulative increase, offsets, BACT)</u>	<u>Y</u>	
<u>BAAQMD</u> <u>Condition</u> <u>22230</u>			
<u>Part 1</u>	<u>Monthly cooling tower samples for TDS (each cooling tower) (Regulation 2-6-503)</u>	<u>N</u>	
<u>Part 2</u>	<u>Drift rate determination for each cooling tower (Regulation 2-6-503)</u>	<u>N</u>	
<u>Part 3</u>	<u>Monthly estimate of hourly particulate emissions for each cooling tower. (Regulations 1-411, 2-6-416, 2-6-501)</u>	<u>N</u>	
<u>Part 4</u>	<u>Estimate and report annual particulate emissions with annual update (Regulations 3, 2-6-501)</u>	<u>N</u>	
<u>Part 5</u>	<u>Recordkeeping (Regulation 2-6-501)</u>	<u>N</u>	

Table IV – ~~XX3E.5~~
Source-specific Applicable Requirements
DELAYED COKER SCREEN/CRUSHER (S-1513) & CONVEYORS & DEWATERING PAD

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

**Table IV – ~~XX3E.5~~
 Source-specific Applicable Requirements
~~DELAYED~~ COKER SCREEN/CRUSHER (S-1513) & CONVEYORS & DEWATERING PAD**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements Visible Emissions(12/05/2007)</u>		
6-1-301	Ringelmann No. 1 limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	N	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann Number 1 Limitation</u>	Y	
6-305	<u>Visible Particles</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-311	<u>General Operations (process weight rate limitation)</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition #23129			
Part 29	Throughput limit S-1513 (basis: cumulative increase, BACT)	Y	
Part 30	Coke moisture content (basis: cumulative increase)	Y	
<u>Part 31</u>	<u>Emission opacity limits (basis: Regulation 6-1)</u>	<u>Y</u>	
Part 32	Compliance methods for Regulation 6-1 (basis: Regulation 6-1, BACT)	Y	
Part 33	Enclose conveyors and use water sprays (basis: BACT)	Y	
Part 34	Daily visible emissions inspection. Recordkeeping. (basis: Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 35	Methods to minimize particulate emissions from coke piles on Coke Dewatering Pad (basis: BACT)	Y	
Part 36	Initial coke moisture content source test (basis: cumulative increase)	Y	
Part 37	Recordkeeping S-1513 (basis: recordkeeping)	Y	

Table IV – ~~XX4E.6~~
Source-specific Applicable Requirements
DELAYED COKE SILOS ABATED BY BAGHOUSES
S-1514 (SILO #1 ABATED BY A-1514)
S-1515 (SILO #2 ABATED BY A-1515)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements Visible Emissions(12/05/2007)</u>		
6-1-301	Ringelmann No. 1 limitation	<u>N</u>	
6-1-305	Visible Particles	<u>N</u>	
6-1-310	Particulate Weight Limitation	<u>N</u>	
6-1-311	General Operations (process weight rate limitation)	<u>N</u>	
6-1-401	Appearance of Emissions	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-311	<u>General Operations (process weight rate limitation)</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	<u>N</u>	
BAAQMD Condition #23129			
Part 38	<u>Visible particulates emission limits (basis: Regulation 6-1 and Regulation 1)</u>	<u>Y</u>	
Part 39	S-1514 & S-1515 abatement requirements (basis: cumulative increase)	Y	
Part 40	Bag failure warning devices for A-1514 & A-1515 (basis: cumulative increase)	Y	
Part 41	Baghouse exhaust air flow rate limits (basis: cumulative increase)	Y	
Part 42	Recordkeeping S-1514 & S-1515 (basis: cumulative increase)	Y	

**Table IV – ~~XX5E.7~~
 Source-specific Applicable Requirements
DELAYED COKER TRUCK LOADOUT (S-1516)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	<u>Particulate Matter; General Requirements Visible Emissions(12/05/2007)</u>		
6-1-301	Ringelmann No. 1 limitation	<u>N</u> Y	
6-1-305	Visible Particles	<u>N</u> Y	
6-1-310	Particulate Weight Limitation	<u>N</u> Y	
6-1-311	General Operations (process weight rate limitation)	<u>N</u> Y	
6-1-401	Appearance of Emissions	<u>N</u> Y	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-311	<u>General Operations (process weight rate limitation)</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	<u>Y</u>	
BAAQMD Condition #23129			
Part 43	<u>Visible particulates emission limits (basis: Regulation 6-1 and Regulation 1)</u>	<u>Y</u>	
Part 44	Throughput limit S-1516 (basis: cumulative increase, BACT)	Y	
Part 45	Truck loading requirements – enclosed structure (basis: BACT)	Y	
Part 46	Truck loading requirements – prevention of fugitive dust emissions during transport (basis: BACT)	Y	
Part 47	Truck loading requirements – truck wheel washer (basis: BACT)	Y	
Part 48	Truck loading requirements – Coke truck route daily sweeping (Basis: BACT)	Y	
Part 49	Recordkeeping S-1516 (Basis: cumulative increase)	Y	

SECTION F TANKS

Section F.1: Tanks – Source Listing and Applicable Permit Conditions

Table IV – F.1 Source-specific Applicable Requirements TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS					
S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
2	Tank A-02	101B	None		
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
3	Tank A-03	101B	None		
15	Tank A-15	101B	None		
26	Tank A-26, White Gasoline	201A	None 5957-1	Secondary seal requirement (basis: Regulation 8-5, cumulative increase)	Y
			5957-2	Requirement to notify BAAQMD concerning secondary seal (basis: Regulation 8-5, cumulative increase)	Y
			10684-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			10684-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
28	Tank A-28	101B	None		
33	Tank A-33, White Gasoline	201A	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
36	Tank A-36	101B	None		
44	Tank A-44	101B	None		
57	Tank A-57	101B	8077- B8C None	Abatement requirement and vapor pressure limit.	Y
70	Tank A-70	101B	None		
134	Tank A-134, Light Green, Recovered Oil	401DC 403B	20923-1	Throughput limit (basis: cumulative increase)	Y
			20923-2	Materials allowed for storage (basis: cumulative increase)	Y
			20923-3	Requirement for abatement (basis: cumulative increase)	Y
			20923-4	Record keeping (basis: cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
135	Tank A-135, Fuel Oil, Jet “A”, Gas Oil, Recovered Oil	201A	8636-1 None	Design specifications (basis: Reg 8-5, cumulative increase)	Y
			8636-2	Requirement to notify the District regarding tank seals (Basis: Reg. 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y
137	Tank A-137, Light Green Recovered Oil Fuel Oil #2, Waste Oil, Gasoline	401C	10984-1	Requirement for abatement (basis: cumulative increase)	Y
			10984-2	Throughput limit (basis: cumulative increase)	Y
			10984-3	Materials allowed for storage (basis: cumulative increase)	Y
			10984-4	Record keeping (basis: cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y
198	Odorant Tank	101 CD	None		
209	Tank A-209	101B	None		

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
217	Tank A-217, White Ethers, Gasoline	201A	None 19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
229	Tank A-229	101B	None		
230	Tank A-230	101B	None		
233	Tank A-233	101B	None		
235	Tank A-235	101B	None		
258	Tank A-258	101B	None		
269	Tank A-269	101B	None		
270	Tank A-270	101B	None		
271	Tank A-271	101B	None		
272	Tank A-272	101B	None		
274	Tank A-274	101B	None		
278	Tank A-278, Green Naphtha, Alkylate, Gasoline	302B	None 19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
313	Tank A-313, White Gasoline	301B	None 8516-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			8516-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase))	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
315	Tank A-315, White Gasoline	301B	None 8516-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			8516-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase))	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
316	Tank A-316, White Gasoline	302B	None 12368-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			12368-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase))	Y
318	Tank A-318, White Crude Oil, Naphtha	401C	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y
323	Tank A-323, White Fuel Oil, Jet 'A', Gasoline, Alkylate Gasoline Blending Components	401A	8077-B8C	Abatement requirement	Y
			13605-1	S323 throughput limit	Y
			13605-2	S323 material stored	Y
			13605-3	S323 abatement requirements	Y
			13605-4	S323 source test	Y
			13605-5	S323 recordkeeping	Y
			21053-3	S323 source test	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
327	Tank A-327 Caustic Waste	101ED	None		
367	Tank A-367 Distillate Oil, Gasoline	401C	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
368	Tank A-368	101B	None		
369	Tank A-369	101B	None		
374	Tank A-374	101B	None		
377	Tank A-377	101B	None		
378	Tank A-378	101B	None		
403	Tank A-403, Black Crude Oil, Bunker C Fuel Oil, Distillate Oil, Gas Oil	101B	None		
405	Tank A-405	101B	None		
406	Tank A-406	101B	None		
429	Tank A-429	101B	None		
430	Tank A-430	101B	None		
432	Tank A-432 Ethyl Alcohol, Distillate Oil, Gasoline, Naphtha	401A	None 19528- +	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	✘
			21053-6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y
467	Tank A-467 Fresh Caustic	None	None		
489	Tank A-489	101B	None		
494	Tank A-494	101A B	None		
495	Tank A-495	101A	None		
503	Tank A-503	101B	None		
514	Tank A-514, LPG Sphere	501	None		
515	Tank A-515, LPG Sphere	501	None		
516	Tank A-516, LPG Sphere	501	None		
517	Tank A-517	101B	None		
529	Tank A-529 Refinery Sour Waste Water	101 D E	8548-1	Requirement for abatement (basis: Reg 1-301, toxics)	✘
			8548-2	Requirement for fugitive inspection and maintenance program (basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)	✘
			8548-3	Requirement for PRVs (basis: BACT)	✘
			10696-1	Abatement requirements (Regulation 1-301, toxics)	Y
530	Tank A-530 Refinery Sour Waste Water	101 D E	8548-1	Requirement for abatement (basis: Reg 1-301, toxics)	✘
			8548-2	Requirement for fugitive inspection and maintenance program (basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)	✘
			8548-3	Requirement for PRVs (basis: BACT)	✘
			10696-1	Abatement requirements (Regulation 1-301, toxics)	Y
554	Tank A-554, LPG Sphere	501	None		
572	Tank A-572, LPG Sphere	501	None		
585	Tank A-585	101B	None		

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
587	Tank A-587 Refinery Sour Waste Water	101B	None		
588	Tank A-588 Refinery Sour Waste Water	101B	None		
598	Tank A-598, LPG Sphere	501	None		
599	Tank A-599, LPG Sphere	501	None		
601	Tank A-601, Black Recovered Oil, Gas-Oil	302C	None 7144-1	Design specifications (basis: Reg- 8-5, cumulative increase)	Y
			7144-2	Requirement to notify the District regarding tank seals (basis: Reg- 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank	401B	21053-6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y
604	Tank A-604	101B	None		
612	Tank A-612 White Ethyl Alcohol	301A	6740-3	Throughput limit (basis: cumulative increase, toxics)	Y
			6740-4	Material to be stored (basis: cumulative increase, toxics)	Y
			6740-5	Record keeping (cumulative increase, toxics)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
613	Tank A-613, White Organic Liquid – other/not Spec	401A	None 21849-1	Final fugitive count (basis: cumulative increase, offsets, toxics risk screen)	Y
			21849-2	Correct offsets if necessary (basis: offsets)	Y
			21849-3	Light hydrocarbon valves shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y
			21849-4	Light hydrocarbon flanges and connectors shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y
			21849-5	Light hydrocarbon pump seals shall be BACT compliant, POC's shall not exceed 500 ppm (basis: BACT, Reg 8-18, toxics risk screen)	Y
			21849-6	Light hydrocarbon pressure relief valves shall vent back to the refinery fuel gas system or abatement with POC capture and destruction of 98% by weight (basis: BACT, Reg 8-28, toxics risk screen)	Y
21849-7	Integrate all new fugitives in organic service into the facility fugitive equipment monitoring and repair program (basis: BACT, Reg 8-18)	Y			
618	Tank A-618 LPG Sphere	501	None		
620	Tank A-620	101B	None		
621	Tank A-621	101B	None		
622	Tank A-622, Light grey Mixture of Diesel and Kerosene	101B	None		

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
629	Tank A-629, Aqueous Ammonia	100	None		
631	Tank A-631 Light Green, Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	201A	None		
637	Tank A-637, White Naphtha	201A	None 19528- +	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
638	Tank A-638, White Naphtha, Gas Oil, Gasoline	201A	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
639	Tank A-639, White Naphtha	201A	None 19528- +	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
640	Tank A-640, White Distillate Oil, Gasoline	201A	8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			None 19528- +	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
641	Tank A-641, White Distillate Oil, Gasoline	201A	None 8517-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8517-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
642	Tank A-642, White Hydrocarbon, Gas Oil	203A	None 5944-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			5944-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
646	Tank A-646, LPG Bullet	501	None		
647	Tank A-647, LPG Bullet	501	None		
648	Tank A-648, LPG Bullet	501	None		
649	Tank A-649, LPG Bullet	501	None		
650	Tank A-650 Refinery Sour Waste Water	203C	None 19528- +	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
651	Tank A-651 Oil/Water Mixture	201A	None 13725- +	Comply with Regulation 8-5 (basis Regulation 8-5)	☒

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
652	Tank A-652, LPG Sphere	501	None		
656	Tank A-846, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	401C+01E	10696-1	Requirement for abatement by A-12	Y
			10696-2	Fugitive component inspection and maintenance	Y
			10696-3	Pressure relief valve requirement	Y
			10696-4	Fugitive component count and emission offsetting requirements	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
658	Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	401C+01E	10696-1	Requirement for abatement by A-12	Y
			10696-2	Fugitive component inspection and maintenance	Y
			10696-3	Pressure relief valve requirement	Y
			10696-4	Fugitive component count and emission offsetting requirements	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
662	Tank A-662	101B	None		
664	Tank A-664, White Gasoline	201A	None 19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
666	Tank A-666, LPG Bullet	501	None		
667	Tank A-667, LPG Bullet	501	None		
668	Tank A-668, LPG Bullet	501	None		
669	Tank A-669, LPG Bullet	501	None		
670	Tank A-670, LPG Bullet	501	None		
672	Tank A-672	401B	None		
690	Tank A-690, White Crude Oil	201A	None 10684-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			10684-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
691	Tank A-691	502	19528-1 None	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
692	Tank A-692, White Gasoline	201A	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
694	Tank A-694, White Crude Oil	201A	19528-1 None	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
695	Tank A-695, LPG Sphere	501	None		
696	Tank A-696, White Gasoline	301A	None 11707-1	Design specifications (basis: Reg. 8-5, cumulative increase)	Y
			11707-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
			21849-1	Final fugitive count (basis: cumulative increase, offsets, toxics risk screen)	☒
			21849-2	Correct offsets if necessary (basis: offsets)	☒
			21849-3	Light hydrocarbon valves shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	☒
			21849-4	Light hydrocarbon flanges and connectors shall be BACT compliant, POC's shall not exceed 100 ppm (basis: BACT, Reg 8-18, toxics risk screen)	☒
			21849-5	Light hydrocarbon pump seals shall be BACT compliant, POC's shall not exceed 500 ppm (basis: BACT, Reg 8-18, toxics risk screen)	☒
			21849-6	Light hydrocarbon pressure relief valves shall vent back to the refinery fuel gas system or abatement with POC capture and destruction of 98% by weight (basis: BACT, Reg 8-28, toxics risk screen)	☒
			21849-7	Integrate all new fugitives in organic service into the facility fugitive equipment monitoring and repair program (basis: BACT, Reg 8-18)	☒
701	Tank A-701, White Crude Oil	201A	None 11897-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			11897-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
702	Tank A-702, White Gasoline	201A	None 19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
705	Tank A-705, Light Green Crude Oil	202	None 5000-1	Secondary seal requirement (cumulative increase, Reg. 8-5)	☒
			5000-2	Requirement to notify the District regarding tank secondary seal (basis: Reg. 8-5, cumulative increase)	☒
			10684-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			10684-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
706	Tank 113-A-706, Blue Crude Oil	202	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
707	Tank 113-A-707, Medium grey Crude Oil, Hydrocarbon	202	None 8517-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8517-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
708	Tank 113-A-708, Blue Crude Oil	202	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	☒
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	☒
709	Tank 113-A-709,	202	None 8636-1	Design specifications (basis: Reg. 8-5, cumulative increase)	☒

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	Green Crude Oil, Waste Oil		8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
710	Tank A-710, Green Alkylate, Gasoline	202	8636-1	Design specifications (basis: Reg 8-5, cumulative increase)	Y
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			None19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
711	Tank 80-A-711, Green Crude Oil, Gasoline	202	8636-1	Design specifications (basis: Reg 8-5, cumulative increase)	Y
			8636-2	Requirement to notify the District regarding tank seals (basis: Reg. 8-5, cumulative increase)	Y
			None19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
714	Tank A-714, White Organic Liquid – other/not Spec, Hydrocarbon	401A	8538-1	Requirement for abatement (basis: cumulative increase)	Y
			8538-2	A14 abatement requirement	Y
			8538-3	Materials to be stored	Y
			8538-4	True vapor pressure limit	Y
			8538-5	Throughput limit	Y
			8538-6	Recordkeeping	Y
			8538-2	Leak limits, inspection and maintenance of fugitive devices (basis: Reg. 8-18, Reg. 8-25, Reg. 8-28)	Y
			8538-3	Requirement to vent pressure relief valves to flare gas recovery system (basis: Reg. 8-28)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
743	Fuel Tank for Speeder, White Gasoline	401C	None		
746	Fire Training Fuel Tank, White Gasoline	401C	None19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
749	Diesel Tank	101A	None		
771	Tank 2-A-713, White DEA (Alcohol, Amine)	101B	None		
775	Tank A-849 Gasoline	302A	10525-8	Requirement for Pressure Relief Valves to Be Vented to Flare Gas Vapor Recovery System (basis: Regulation 8-28, BACT)	Y
			19762-A1	Throughput limit (basis: cumulative increase, toxics, offsets)	Y
			19762-A2	True vapor pressure limitation (basis: BACT, Regulation 8-5, cumulative increase, toxics, offsets)	Y
			19762-A3	Construction design requirements (basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10, Subpart Kb, offsets)	Y
			19762-A4	Construction design requirements for fittings and roof penetrations (basis: cumulative increase, toxics, offsets)	Y
			19762-A5	Requirements for storage of materials other than gasoline (basis: cumulative increase, toxics, offsets)	Y
			19762-A6	Record keeping (basis: cumulative increase, toxics, offsets)	Y

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y
795	#3 Reformer V-307, Tan Perchloroethylene	501	5711-1	Throughput limit (basis: toxics, cumulative increase)	Y
			5711-2	Materials to be stored (basis: toxics, cumulative increase)	Y
			5711-3	Requirement for abatement (basis: toxics, cumulative increase)	Y
			5711-4	Record keeping (basis: toxics, cumulative increase)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	203B	21393-1	Throughput limit (basis: cumulative increase, toxic risk screen, BACT)	Y
			21393-2	Materials to be stored (basis: Cumulative increase, toxic risk screen)	Y
			21393-3	Startup conditions: report actual fugitive count (basis: cumulative increase, toxic risk screen, offsets)	Y
			21393-4	Records and reporting (basis: cumulative increase, reg 1-441, Reg 8-5-501)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y
872	Tank A-872	101B	None		
873	Tank A- 89573	101B	None		
896	Tank A-896, Off-white, Slop oil	203C	23263-1	Throughput limit (basis: cumulative increase)	Y
			23263-2	Materials to be stored (basis: Cumulative increase, toxics, Offsets)	Y
			23263-3	Records and reporting (basis: cumulative increase, Toxics)	Y
			23263-4	Construction design requirements for fittings and roof penetrations (basis: BACT)	Y
990	Tank 749, Green, Rich DEA	101B403	None		
1024	Tank 80-A-717	101B	None		
1416	Tank A-746, SAP Spent Acid	101B403	None19528-10	Source test requirement (basis: Regulation 8-2; Regulation 2-1-403; Regulation 2-6-503)	Y
			19528-10A	Source test report (basis: Regulation 2-1-403; Regulation 8-2; Regulation 2-6-503)	Y
1418	Tank 750, Green, Rich DEA	101B403	None		
<u>1421</u>	<u>Tank 757, ARU Feed</u>	<u>202</u>	13282-1	Throughput Limit (basis: cumulative increase, offsets)	Y
			13282-2	Material Stored (basis: cumulative increase, toxics)	Y
			13282-4	Recordkeeping (basis: cumulative increase, toxics, Regulation 8-5, offsets)	Y
<u>1422</u>	<u>Tank M-782, ARU Feed</u>	<u>202</u>	<u>None</u>		
1461	Tank A-866, White Crude Oil	203A	17477-A1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-A2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-A3	Design Requirements (basis: BACT, Regulation 8-5, Cumulative Increase, toxics, NSPS, Regulation 10 Subpart Kb)	Y
			17477-A4	Fitting Count Requirements (basis: cumulative increase, toxics, offsets)	Y
			17477-A5	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-A6	Record keeping (basis: cumulative increase, toxics)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y
1463	Tank A-867, Silver	203A	17477-C1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-C2	True Vapor Pressure Limit (basis: cumulative increase)	Y

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Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	Crude Oil, HDS Gas Oil		17477-C3	Design Requirements (basis: BACT, Regulation 8-5, Cumulative Increase, toxics, NSPS, Regulation 10 Subpart Kb)	Y
			17477-C4	Fitting Count Requirements (basis: cumulative increase, toxics, offsets)	Y
			17477-C5	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-C6	Record keeping (basis: cumulative increase, toxics)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
1464	Tank A-868, Off White Diesel, Jet A, Kerosene	203A+101B	17477-D1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-D2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-D3	Fitting Count Requirements (basis: cumulative increase, toxics, offsets)	Y
			17477-D4	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-D5	Record keeping (basis: cumulative increase, toxics)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
1465	Tank A-869, Off-white Jet A, Diesel, Kerosene	203A+101B	17477-E1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-E2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-E3	Fitting Count Requirements (basis: cumulative increase, toxics, offsets)	Y
			17477-E4	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-E5	Record keeping (basis: cumulative increase, toxics)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
1468	Tank A-877 Spent Sulfidic Caustic	101B	None		
1473	Storage Tank Ethyl Mercaptan Odorant	501	19197-1	Abatement at all times (basis: cumulative increase)	Y
			19197-2	Throughput limit (basis: cumulative increase)	Y
			19197-3	Startup Condition: report actual fugitive count (basis: cumulative increase, offsets)	Y
			19197-4	Startup Condition: supply offsets if owed (basis: offsets)	Y
			19197-5	POC emissions from Flanges and connectors shall not exceed 100 ppm (basis: cumulative increase, Reg 8-18)	Y
			19197-6	POC emissions from Valves shall not exceed 100 ppm (basis: cumulative increase, Reg 8-18)	Y
			19197-7	Throughput records (basis: cumulative increase)	Y
1485	Tank A-870 Gasoline Blending Components	302A	20520-1	Throughput limit (basis: cumulative increase)	Y
			20520-2	Vapor pressure limits (basis: cumulative increase, toxics, offsets)	Y
			20520-3	Design requirements (basis: BACT, Reg 8-5, cumulative increase, toxics, NSPS, Reg 10 Subpart Kb, offsets)	Y
			20520-4	Startup condition: report fugitive count (basis: cumulative increase, toxics, offsets)	Y
			20520-5	Material to be stored (basis: cumulative increase, toxics, offsets)	Y
			20520-6	Record keeping and reporting	Y
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water	404	21536-1	Throughput limit for S1489 (basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (basis: cumulative increase, toxic risk screen)	Y

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Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	Mixture		21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout (basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture	404	21536-10	Record keeping and reporting (basis: cumulative increase, recordkeeping)	Y
			21536-1	Throughput limit for S1489 (basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (basis: cumulative increase, toxic risk screen)	Y
			21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout (basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture	404	21535-1	Throughput limit (basis: cumulative increase, toxic risk screen)	Y
			21535-2	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21535-3	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21535-4	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21535-5	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21535-6	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21535-7	Last carbon vessel changeout (basis: cumulative increase, toxic risk screen)	Y
			21535-8	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
			21535-9	Record keeping and reporting (basis: cumulative increase, recordkeeping)	Y
1496	Tank A-876 Heavy reformatte with pentanes, straight run heavy	401C	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			1952821053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y

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Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	naphtha		21100-1	Throughput limit (basis: cumulative increase, toxic risk screen, offsets)	Y
			21100-2	99.5% abatement by vapor recovery shall be used (basis: cumulative increase, toxic risk screen, offsets, Reg 8-5, NSPS, reg 10 Subpart Kb)	Y
			21100-3	Materials stored (basis: cumulative increase, toxic risk screen, offsets)	Y
			21100-4	Source test requirements (basis: cumulative increase, toxic risk screen, offsets, Reg 1-238)	Y
			21100-5	Record keeping and reporting (basis: cumulative increase, toxic risk screen, offsets, Reg 1-441, Reg 8-5-501, Reg 1-238)	Y
1498	KI-75, KI-85	101A	None		
1505	Tank A-777	101CD	None		
1506	Tank A-893 Gasoline, Gasoline Blending Stock	203A	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22640-1	Throughput Limit (basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (basis: cumulative increase, toxics)	Y
			22640-3	Tank Fitting Count Requirements (basis: BACT, Cumulative Increase, toxics)	Y
			22640-4	Record keeping (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1507	Tank A-894 Gasoline, Gasoline Blending Stock	203A	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22640-1	Throughput Limit (basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (basis: cumulative increase, toxics)	Y
			22640-3	Tank Fitting Count Requirements (basis: BACT, Cumulative Increase, toxics)	Y
			22640-4	Record keeping (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1508	Tank A-906 Avon Wharf Recovered Oil Tank, Berth 1	402A	23486-1	Throughput limit (basis: Cumulative Increase)	Y
			23486-2	Materials collected in S-1508 & S-1509	Y
			23486-4	Record keeping	Y
1509	Tank A-907 Avon Wharf Recovered Oil Tank, Berth 5	402A	23486-1	Throughput limit (basis: Cumulative Increase)	Y
			23486-2	Materials collected in S-1508 & S-1509	Y
			23486-4	Record keeping	Y
1521	Tank A-904	203A	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			23739-1	Throughput Limit	Y
			23739-2	True Vapor Pressure Limit	Y
			23739-3	Recordkeeping Requirements	Y
1522	Tank A-927 Naphtha, Disulfide Oil, Wash Water, Off-Spec Gasoline	401C	24131-1	Throughput Limit	Y
			24131-2	A-14 Vapor Recovery Abatement Requirement	Y
			24131-3	Recordkeeping	Y
			24131-4	Final Fugitive Count	Y
			24131-5	Offset additional Fugitive emissions, if required	Y
			24131-6	Incorporate components into monitoring program	Y
B19	Tank B-19 Crude Oil	201B	10684-1	Zero Gap Secondary Seal Requirement (basis: Regulation 8-5)	Y
			10684-2	Compliance Reporting Requirement (basis: Regulation 8-5)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22455-9	Throughput Limit	Y

Table IV – F.1
Source-specific Applicable Requirements
TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
B21	Tank B-21 Crude Oil, Gasoline	201B	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22455-9	Throughput Limit	Y
B30	Tank B-30 Crude Oil, Gasoline	201B	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22455-9	Throughput Limit	Y
B49	Tank B-49 Crude Oil	201A	19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22455-9	Throughput Limit	Y
B50	Tank B-50 Crude Oil	201A	10684-1	Zero Gap Secondary Seal Requirement (basis: Regulation 8-5)	Y
			10684-2	Compliance Reporting Requirement (basis: Regulation 8-5)	Y
			19528-1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y
			22455-9	Throughput Limit	Y
B54	Amorco Wharf Slop Tank	402B	None		

Section F.2: Tanks – Groups And Group Descriptions

**Table IV – F.2
 Source-specific Applicable Requirements
 TANKS – GROUPS AND GROUP DESCRIPTIONS**

Tank Group	Tank Type	Group Description	Sources
100	Non-Regulated	Permitted Tanks with no Applicable Regulations	S629
101	8-5 Exempt	8-5 Exempt (Content or Size)	This group includes sources from 101A, 101B, 101C, <u>and</u> 101D, <u>and</u> 101E
101A	8-5 Exempt	8-5 Exempt (Content), MACT Exempt (Size)	S494, S495, S749, S1498
101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	S2, S3, S15, S28, S36, S44, S57, S70, S209, S229, S230, S233, S235, S258, S269, S270, S271, S272, S274, S368, S369, S374, S377, S378, S403, S405, S406, S429, S430, S489, S503, S517, S585, S587, S588, S604, S620, S621, S622, S629, S662, S672, S771, S872, S873, S990, S1024, S1416, S1418, S1464, S1465, S1468
101C	8-5 Exempt	8-5 Exempt (Size and Content), MACT Exempt (Size)	S743, S746
101D	8-5 Exempt	8-5 Exempt (Size), MACT Exempt (Size)	S198, S1505
101E	8-5 Exempt	8-5 Exempt (Content), MACT Exempt (Abated by Vapor Recovery System)	S327, S529, S530, S656, S658
201	8-5-304 EFR	MACT Group 1	This group includes sources from 201A and 201B
201A	8-5-304 EFR	Welded, MACT Group 1	S26, S33, <u>S135</u> , S217, S631, S637, S638, S639, S640, S641, S651, S664, S690, S692, S694, S701, S702, B49, B50
201B	8-5-304 EFR	Riveted, MACT Group 1	B19, B21, B30
202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	S705, S706, S707, S708, S709, S710, S711, <u>S1421, S1422</u>
203	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1)	This group includes sources from 203A, 203B, and 203C
203A	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted	S642, S1461, S1463, <u>S1464, S1465</u> , S1506, S1507, S1521
203B	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted and Solid	S871
203C	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1), BWON 61 Subpart FF	S896, S650
301	8-5-305 IFR	MACT Group 1	This group includes sources from 301A and 301B
301A	8-5-305 IFR	Welded, MACT Group 1	S612, S696
301B	8-5-305 IFR	Riveted, MACT Group 1	S313, S315
302	8-5-305 IFR	NSPS Kb, MACT Overlap 63.640(n)(1)	This group includes sources from 302A, 302B, and 302C
302A	8-5-305 IFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	S775, S1485
302B	8-5-305 IFR	<u>Reserved for</u> Riveted, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	S278, S316 <u>No Sources</u>
302C	8-5-305 IFR	NSPS Kb, MACT WW 63.647(a), BWON	S601

Table IV – F.2
Source-specific Applicable Requirements
TANKS – GROUPS AND GROUP DESCRIPTIONS

Tank Group	Tank Type	Group Description	Sources
		61 Subpart FF	
401	8-5-306 Fixed Roof	MACT Exempt (Abated by Vapor Recovery System)	This group includes sources from 401A, 401B, 401C, and 401D
401A	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System)	S323, S432, S613, S714
401B	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	S603
401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	S137, S318, S367, S656, S658 , S1496, S1522
401D	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	S134
402	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size),	This group includes sources from 402A and 402B
402A	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Top Fill and Pressure Vacuum Vent	S1508, S1509
402B	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Side Fill , no Pressure Vacuum Vent	B54
403	Reserved 8-5-306 Fixed Roof	MACT Group 1, Abated by SRU Stack Incinerators A1525	S990, S1416, S1418
404	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (not related to process units), Abated by Carbon, Can be used in BWON 61 Subpart FF service.	S1489, S1490, S1491 (Portable tanks used for temporary hazardous waste management)
501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	S514, S515, S516, S554, S572, S598, S599, S618, S646, S647, S648, S649, S652, S666, S667, S668, S669, S670, S695, S795, S1473
502	8-5-306 Fixed Roof	MACT Exempt (Butane Refrigerated Dome Tank)	S691

Note: Sources with a “B” instead of “S” are for facility B2759.

Section F.3: Tanks – Tank Group Applicable Requirements

**Table IV – F.3
 Source-specific Applicable Requirements
 TANK GROUP APPLICABLE REQUIREMENTS**

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
BAAQMD Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (10/18/2006)													
8-5-100	General	Y	X	X	X	X	X	X	X	X	X	X	X	X
8-5-101	Description	Y	X	X	X	X	X	X	X	X	X	X	X	X
8-5-110	Exemptions	Y									-			
8-5-110.1	Exemptions; Tanks < 264 gallons	Y	C								-			
8-5-110.2	Exemptions; Tanks installed before 1/4/67	Y									-			
8-5-110.3	Exemptions; Above ground gasoline tanks < 2,008 gallons	Y									-			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N		X	X	X	X	X	X	X	X	X	X	X
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N		X	X	X	X	X	X	X	X	X	X	X
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y		X	X	X	X	X			-			
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y							X		X	X	X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N		X	X	X	X	X	X	X	X	X	X	X
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.1.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.1.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N		X	X	X	X	X	X	X	X	X	X	X

**Table IV – F.3
 Source-specific Applicable Requirements
 TANK GROUP APPLICABLE REQUIREMENTS**

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.6.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.6.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.6.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X	X	X	X	X
8-5-112.6.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X	X	X	X	X
8-5-117	Limited Exemption, Low Vapor Pressure	N	A B D	X	X	X	X	X	X	X	X	X	X	X
8-5-118	Limited Exemption, Gas Tight Requirements	N							X		X			X
8-5-119	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X	X	X	X	X
8-5-119.1	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X	X	X	X	X
8-5-119.2	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X	X	X	X	X
8-5-119.3	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X	X	X	X	X
8-5-301	Storage Tank Control Requirements	N		X	X	X	X	X	X	X	X	X	X	X
8-5-302	Requirements for Submerged Fill Pipes	Y								X	-			
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y								A	-			
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y								B	-			
8-5-303	Requirements for Pressure Vacuum Valves	N							X	A	X			X
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N							X	A	X			X
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N							X	A	X			X
8-5-304	Requirements for External Floating Roof Tanks	N		X	X	X					-			
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y		X	X	X					-			
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y		X	X	X					-			
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y		X	X	X					-			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N		X	X	X					-			
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N		X	X	X					-			
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N		X	X	X					-			
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N		X	X	X					-			
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N		X	X	X					-			
8-5-305	Requirements for Internal Floating roofs	N					X	X			-			
8-5-305.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y									-			
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y									-			
8-5-305.1.2	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y									-			
8-5-305.1.3	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y									-			
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y					X	X			-			
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y					X	X			-			
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y					X	X			-			
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N					X	X			-			
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N					X	X			-			
8-5-306	Requirements for Approved Emission Control Systems	N							X		X	X		X
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N							X		X	X		X
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N							X	X	X	X	X	X
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N							X	X	X	X	X	X
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N									-		X	
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N									-		X	
8-5-320	Floating Roof Tank Fitting Requirements	N		X	X	X	X	X			-			
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N		X	X	X	X	X			-			
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N		X	X	X	X	X			-			
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y		X	X	X	X	X			-			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-320.3.2	Floating Roof Tank Fitting Requirements; Internal floating roof inaccessible opening requirements	Y					X	X			-			
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y				B					-			
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y				B					-			
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y				B					-			
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y				B					-			
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N		X	X	X	X	X			-			
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y		X	X	X	X	X			-			
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N		X	X	X	X	X			-			
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y		X	X	X	X	X			-			
8-5-320.6	Floating Roof Tank Fitting Requirements; Emergency roof drain requirements	Y									-			
8-5-321	Primary Seal Requirements	N		X	X	X	X	X			-			
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y		X	X	X	X	X			-			
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y		X	X	X	X	X			-			
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N		X	X	X	X	X			-			
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y		X	X	X	X	X			-			
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y		A	X	X	A	A C			-			
8-5-321.3.3	Primary Seal Requirements; Metallic-shoe-type seal requirements--riveted tanks	Y		B			B	B			-			
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N					X	X			-			
8-5-322	Secondary Seal Requirements	N		X	X	X	X	X			-			
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y		X	X	X	X	X			-			
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y		X	X	X	X	X			-			
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y									-			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-322.4	Secondary seal requirements; Riveted tanks seal requirements	Y		B			B	B			-			
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y		A	X	X	A	A C			-			
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y		X	X	X	X	X			-			
8-5-328	Tank Degassing Requirements	N		X	X	X	X	X	X	X	X	X	X	X
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N		X	X	X	X	X	X	X	X	X	X	X
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N		X	X	X	X	X	X	X	X	X	X	X
8-5-331	Tank Cleaning Requirements	N		X	X	X	X	X	X	X	X	X	X	X
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N		X	X	X	X	X	X	X	X	X	X	X
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N		X	X	X	X	X	X	X	X	X	X	X
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N		X	X	X	X	X	X	X	X	X	X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks	N		X	X	X					-			
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N		X	X	X					-			
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N		X	X	X					-			
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N					X	X			-			
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y					X	X			-			
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N					X	X			-			
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N					X	X			-			
8-5-403	Inspection Requirements for Pressure Relief Devices	N							X	X	A	X	X	X
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N							X	X	A	X		X
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N							X	X	A	X	X	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N		X	X	X	X	X	X	X	A	X	X	X
8-5-411	Enhanced Monitoring Program (Optional)	N		X	X	X	X	X	X	X	X	X	X	X
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N		X	X	X	X	X	X	X	X	X	X	X
8-5-412	Monitoring of Leaking Pontoons	N		X	X	X					-			
8-5-501	Records	N		X	X	X	X	X	X	X	X	X	X	X

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y		X	X	X	X	X			-			
8-5-501.3	Records; Retention	N		X	X	X	X	X	X	X	X	X	X	X
8-5-501.4	Records; New PV setpoints	N							X	A	X	X		X
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N							X		X	X	X	X
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N									X	X	X	X
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y									-			
8-5-602	Analysis of Samples, True Vapor Pressure	Y	X	X	X	X	X	X	X	X	X	X	X	X
8-5-603	Determination of Abatement Efficiency	N	-						X		X	X	X	X
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	X	X	X	X	X	X	X	X	X	X	X	X
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N		X	X	X	X	X	X	X	X	X	X	X
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N		X	X	X	X	X	X	X	X	X	X	X
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N		X	X	X	X	X	X	X	X	X	X	X
8-5-606	Analysis of Samples, Tank Cleaning Agents	N		X	X	X	X	X	X	X	X	X	X	X
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N		X	X	X	X	X	X	X	X	X	X	X
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N		X	X	X	X	X	X	X	X	X	X	X
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N		X	X	X	X	X	X	X	X	X	X	X
SIP Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (06/05/2003)										-			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112	Limited Exemption, Tanks in Operation	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y									-			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-117	Exemption, Low Vapor Pressure	Y	A B D	X	X	X	X	X	X	X	X	X	X	X
8-5-301	Storage Tank Control Requirements	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-303	Requirements for Pressure Vacuum Valves	Y							X	A	X	X		X
8-5-303.1	Requirements for Pressure Vacuum Valves	Y							X	A	X	X		X
8-5-303.2	Requirements for Pressure Vacuum Valves	Y							X	A	X	X		X
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	Y		X	X	X					-			
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y		X	X	X					-			
8-5-305	Requirements for Internal Floating roofs	Y					X	X			-			
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y					X	X			-			
8-5-306	Requirements for Approved Emission Control Systems	Y							X		X	X		X
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y									-		X	
8-5-320	Tank Fitting Requirements	Y		X	X	X	X	X			-			
8-5-320.2	Tank Fitting Requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y		X	X	X	X	X			-			
8-5-320.3	Tank Fitting Requirements; Gasketed covers, seals, lids	Y		X	X	X	X	X			-			
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	Y		X	X	X	X	X			-			
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	Y		X	X	X	X	X			-			
8-5-321	Primary Seal Requirements	Y		X	X	X	X	X			-			
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y		X	X	X					-			
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	Y					X	X			-			
8-5-322	Secondary Seal Requirements	Y		X	X	X	X	X			-			
8-5-328	Tank degassing requirements	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y		X	X	X	X	X	X		X	X	X	X
8-5-328.1.1	Tank degassing requirements; Liquid Balancing	Y									-			
8-5-328.1.2	Tank degassing requirements; Concentration of <10,000 ppm as methane after degassing	Y		X	X	X	X	X	X		X	X	X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks			X	X	X					-			
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y		X	X	X					-			
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y		X	X	X					-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y					X	X			-			
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y					X	X			-			
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y					X	X			-			
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y							X	A	X	X		X
8-5-404	Certification	Y		X	X	X	X	X	X	A	X	X	X	X
8-5-405	Report	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-405.1	Information required	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-405.2	Information required	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-405.3	Information required	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-501	Records	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-503	Portable Hydrocarbon Detector	Y		X	X	X	X	X	X	X	X	X	X	X
8-5-603	Determination of Emissions	Y							X		X			X
8-5-603.1	Determination of Emissions; Method to test emission control system (8-5-306)	Y							X		X			X
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	Y							X	A	X	X	X	X
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)													
10-16	Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978	Y			X									
10-17	Subpart Kb--Standards Of Performance For Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, Or Modification Commenced After July 23, 1984 subpart Kb—Standards Of Performance For Storage Vessels For Petroleum Liquids For Which Construction, Reconstruction, Or Modification Commence After May 18, 1978, And Prior To July 23, 1984	Y				X		X	C D			X		
BAAQMD Regulation 11, Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y				C		C	B D	X		X		
40 CFR 60 Subpart Ka	NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978													
60.110a(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > = to 40,000 gallons, after 5/18/1978	Y			X				e		-			

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40 CFR 60 Subpart Kb	NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984										-			
60.110b	Applicability and Designation of Affected Facility	Y				A		A B	C D		✗	X		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y				A		A B	C D		✗	X		
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y				A		A B	C D		✗	X		
60.110b(d)	This subpart does not apply to the following:	Y									-			
60.110b(d)(2)	Pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.	Y									-			
60.110b(d)(4)	Vessels with a design capacity less than or equal to 1,589.874 m3 used for petroleum or condensate stored, processed, or treated prior to custody transfer.	Y									-			
60.110b(d)(8)	Vessels subject to subpart GGGG of 40 CFR part 63.	Y									-			
60.112b	Standard for Volatile Organic Compounds (VOC)	Y				X		X	C D		✗	X		
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y				X		X	C D		✗	X		
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y						X			-			
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y						X			-			
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y						X			-			
60.112b(a)(1)(ii)(A)	A foam-or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam-or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the	Y									-			
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y						X			-			
60.112b(a)(1)(ii)(C)	A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope)	Y									-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y						X			-			
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y						X			-			
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y						X			-			
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y						X			-			
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y						X			-			
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y						X			-			
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y						X			-			
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y				X					-			
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y				X					-			
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y				X					-			
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y				X					-			
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y				X					-			
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y				X					-			
60.112b(a)(3)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device	Y				X			C D		X	X		
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y							C D		X	X		
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction. If a flare is used as the control device, it shall meet the specifications of 60.18	Y							C D		X	X		
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa	Y									X			
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y									X			
60.112b(b)(2)	A system equivalent to that described in paragraph (b)(1) as provided in §60.114b of this subpart.	Y									-			
60.113b	Testing and Procedures	Y				X		X	C D		X	X		
60.113b(a)	Testing and Procedures; Internal floating roof	Y						X			-			
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y						X			-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y						X			-			
60.113b(a)(3)	For vessels equipped with a double-seal system as specified in §60.112b(a)(1)(ii)(B):	Y									-			
60.113b(a)(3)(i)	Visually inspect the vessel as specified in paragraph (a)(4) of this section at least every 5 years; or	Y									-			
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y						X			-			
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed – at least every 10 years	Y						X			-			
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y						X			-			
60.113b(b)	Testing and Procedures; External floating roof	Y				X					-			
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y				X					-			
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y				X					-			
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y				X					-			
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y				X					-			
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y				X					-			
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y				X					-			
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y				X					-			
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y				X					-			
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y				X					-			
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y				X					-			
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y				X					-			
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y				X					-			
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y				X					-			
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal	Y				X					-			
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y				X					-			
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y				X					-			
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y				X					-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y				X					-			
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y				X					-			
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y				X					-			
60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y				X					-			
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y				X					-			
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y							C D		X	X		
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y							C D		X	X		
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y							C D		X	X		
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y							C D		X	X		
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y							C D		X	X		
60.113b(d)	Testing and Procedures; Closed vent system and flare shall meet the control device requirements of 60.18(e) & (f).	Y							C		X	X		
60.115b	Recordkeeping and Reporting Requirements	Y				X	X		C D		X	X		
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y					X				-			
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y					X				-			
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y					X				-			
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y					X				-			
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y					X				-			
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y				X					-			
60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y				X					-			
60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y				X					-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y				X					-			
60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y				X					-			
60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y				X					-			
60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y				X					-			
60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y				X					-			
60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y				X					-			
60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y				X					-			
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y				X					-			
60.115b(c)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare)	Y							C D		X	X		
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y							C D		X	X		
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y							C D		X	X		
60.116b	Monitoring of Operations	Y				X	X		C D		X	X		
60.116b(a)	Monitoring of Operations; Record retention	Y				X	X		C D		X	X		
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y				X	X		C D		X	X		
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y				X	X				-			
60.116b(d)	Monitoring of Operations; Notify within 30 days when the maximum TVP is exceeded	Y				X	X				X			
60.116b(e)	Monitoring of Operations; Maximum true vapor pressure (TVP)	Y				X	X		C D		X	X		
60.116b(e)(1)	Monitoring of Operations; TVP Determination Criteria	Y				X	X		C D		X	X		
60.116b(e)(2)	Monitoring of Operations; TVP Determination Criteria, Crude Oil	Y				A	A B		C D		X	X		

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60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products by API method	Y				A		A B	C D		*	X		
60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products other than API method	Y				A		A B	C D		*	X		
60.116b(e)(3)	Monitoring of Operations; Determine TVP	Y				X		X	C D			X		
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y				X		X	C D			X		
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y				X		X	C D			X		
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y				X		X	C D			X		
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y				X		X	C D			X		
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y				C		C	C D			X		
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y				C		C	C D			X		
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y				C		C	C D			X		
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y				C		C	C D			X		
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y				C		C	C D			X		
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y				C		C	C D			X		
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y							C D		*	X		
40 CFR 63 Subpart G	NESHAPS for Source Categories: SOCOMI HON G Requirements for Tanks subject to 40 CFR 63 Subpart CC													
63.119	Storage Vessel Provisions--Reference Control Technology	Y		X	X		X				*			
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y		X	X		X				*			
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa (11psi)	Y		X	X		X				*			
63.119(b)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof	Y					X				-			
63.119(b)(1)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Leg Support	Y					X				-			
63.119(b)(1)(i)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof ; Initial Fill	Y					X				-			
63.119(b)(1)(ii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Empty and Degassed	Y					X				-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.119(b)(1)(iii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Completely Empty	Y					X				-			
63.119(b)(2)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Resting on Leg Support	Y					X				-			
63.119(b)(3)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Closure Device	Y					X				-			
63.119(b)(3)(i)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Liquid Mounted Seal	Y					X				-			
63.119(b)(3)(ii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Metallic Shoe Seal	Y					X				-			
63.119(b)(3)(iii)	Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous seals	Y					X				-			
63.119(b)(4)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Automatic Bleeder Vent	Y					X				-			
63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y		X	X						-			
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y		X	X						-			
63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y		X	X						-			
63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y		X	X						-			
63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary and secondary seal requirements	Y		X	X						-			
63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof – roof must rest on liquid	Y		X	X						-			
63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X						-			
63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X						-			
63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X						-			
63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y		X	X						-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.119(e)	Storage Vessel Provisions--Reference Control Technology—The owner or operator who elects to use a closed vent system and control device to comply with the requirements of paragraph (a)(1) or (a)(2) of this section shall comply with the requirements specified in paragraphs (e)(1) through (e)(5) of this section.	Y									✘			
63.119(e)(1)	Storage Vessel Provisions . Reference Control Technology—Control device used to comply with 63.119(a)(1) or (a)(2) shall reduce HAPs by 95% or greater. If a flare is used, it shall meet the specification of 63.11 (b).													
63.119(e)(2)	If the owner or operator can demonstrate that a control device installed on a storage vessel on or before December 31, 1992 [July 15, 1994] is designed to reduce inlet emissions of total organic HAP by greater than or equal to 90 percent but less than 95 percent, then the control device is required to be operated to reduce inlet emissions of total organic HAP by 90 percent or greater.	Y									✘			
63.119(e)(3)	Periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of paragraph (e)(1) or (e)(2) of this section, as applicable, shall not exceed 240 hours per year.	Y									✘			
63.119(e)(4)	The specifications and requirements in paragraphs (e)(1) and (e)(2) of this section for control devices do not apply during periods of planned routine maintenance.	Y									✘			
63.119(e)(5)	The specifications and requirements in paragraphs (e)(1) and (e)(2) of this section for control devices do not apply during a control system malfunction.	Y									✘			
63.120	Storage Vessel Provisions - Procedures To Determine Compliance.	Y		X	X		X				✘			
63.120(a)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof	Y					X				-			
63.120(a)(1)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection Schedule	Y					X				-			
63.120(a)(2)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof with Single Seal System	Y					X				-			
63.120(a)(2)(i)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection through Manhole	Y					X				-			
63.120(a)(2)(ii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once every 12 months or during Empty and Degassing	Y					X				-			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.120(a)(3)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof with Double Seal System	Y					X				-			
63.120(a)(3)(i)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once During Empty and Degassing and Once Every 5 Years	Y					X				-			
63.120(a)(3)(ii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection through Manhole at Least Once Every 12 Months	Y					X				-			
63.120(a)(3)(iii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once During Empty and Degassing and Once Every 10 Years	Y					X				-			
63.120(a)(4)	Storage Vessel Provisions - Procedures To Determine Compliance - Repair within 45 days or Extension Needed	Y					X				-			
63.120(a)(5)	Storage Vessel Provisions - Procedures To Determine Compliance - Notify at least 30 days prior to filling	Y					X				-			
63.120(a)(6)	Storage Vessel Provisions - Procedures To Determine Compliance - Unplanned Inspection	Y					X				-			
63.120(a)(7)	Storage Vessel Provisions - Procedures To Determine Compliance - Inspect Every 5 Years for Secondary and Primary Seals	Y					X				-			
63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y		X	X						-			
63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y		X	X						-			
63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y		X	X						-			
63.120(b)(1)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y		X	X						-			
63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y		X	X						-			
63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X						-			
63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X						-			
63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X						-			

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TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y		X	X						-			
63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X						-			
63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y		X	X						-			
63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y		X	X						-			
63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y		X	X						-			
63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y		X	X						-			
63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y		X	X						-			
63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y		X	X						-			
63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y		X	X						-			
63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y		X	X						-			
63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X						-			
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X						-			
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X						-			
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y		X	X						-			
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y		X	X						-			
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y		X	X						-			
63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs (does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e))	Y		X	X						-			

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 Source-specific Applicable Requirements
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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y		X	X						-			
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections - Notification for unplanned	Y		X	X						-			
63.120(d)	To demonstrate compliance with §63.119(e) of this subpart (storage vessel equipped with a closed vent system and control device) using a control device other than a flare, the owner or operator shall comply with the requirements in paragraphs (d)(1) through (d)(7) of this section, except as provided in paragraph (d)(8) of this section.										X			
63.120(d)(1)	The owner or operator shall either prepare a design evaluation, which includes the information specified in paragraph (d)(1)(i) of this section, or submit the results of a performance test as described in paragraph (d)(1)(ii) of this section.										X			
63.120(d)(1)(ii)	The owner or operator is not required to prepare a design evaluation for the control device as described in paragraph (d)(1)(i) of this section, if the performance tests meets the criteria specified in paragraphs (d)(1)(ii)(A) and (d)(1)(ii)(B) of this section.										X			
63.120(d)(1)(ii)(A)	The performance test demonstrates that the control device achieves greater than or equal to the required control efficiency specified in §63.119 (e)(1) or (e)(2) of this subpart, as applicable; and										X			
63.120(d)(1)(ii)(B)	The performance test is submitted as part of the Notification of Compliance Status required by §63.151(b) of this subpart [§63.654(f) of Subpart CC].										X			
63.120(d)(2)	The owner or operator shall submit, as part of the Notification of Compliance Status required by §63.151(b) of this subpart [§63.654(f) of Subpart CC], a monitoring plan containing the information specified in paragraph (d)(2)(i) of this section and in either (d)(2)(ii) or (d)(2)(iii) of this section.										X			
63.120(d)(2)(i)	A description of the parameter or parameters to be monitored to ensure that the control device is being properly operated and maintained, an explanation of the criteria used for selection of that parameter (or parameters), and the frequency with which monitoring will be performed (e.g., when the liquid level in the storage vessel is being raised); and										X			
63.120(d)(2)(iii)	The information specified in paragraph (d)(2)(iii) (A) and (B) of this section if the owner or operator elects to submit the results of a performance test.										X			

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 Source-specific Applicable Requirements
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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.120(d)(2)(iii)(A)	Identification of the storage vessel and control device for which the performance test will be submitted, and										X			
63.120(d)(2)(iii)(B)	Identification of the emission point(s) that share the control device with the storage vessel and for which the performance test will be conducted.										X			
63.120(d)(3)	The owner or operator shall submit, as part of the Notification of Compliance Status required by §63.152(b) of this subpart [§63.654(f) of Subpart CC], the information specified in paragraphs (d)(3)(i) and, if applicable, (d)(3)(ii) of this section.										X			
63.120(d)(3)(i)	The operating range for each monitoring parameter identified in the monitoring plan. The specified operating range shall represent the conditions for which the control device is being properly operated and maintained.										X			
63.120(d)(3)(ii)	Results of the performance test described in paragraph (d)(1)(ii) of this section.										X			
63.120(d)(5)	The owner or operator shall monitor the parameters specified in the Notification of Compliance Status required in §63.152(b) of this subpart [§63.654(f) of Subpart CC], or in the operating permit and shall operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status.										X			
63.120(d)(6)	Except as provided in paragraph (d)(7) of this section, each closed vent system shall be inspected as specified in §63.148 of this subpart. The initial and annual inspections required by §63.148(b) of this subpart shall be done during filling of the storage vessel.										X			
63.120(d)(7)	For any fixed roof tank and closed vent system that are operated and maintained under negative pressure, the owner or operator is not required to comply with the requirements specified in §63.148 of this subpart.													
63.123	Storage Vessel Provisions--Recordkeeping.	Y		X	X		X				X			
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y		X	X		X				-			
63.123(c)	Storage Vessel Provisions . Recordkeeping - Group 1 Fixed Roof with Internal Floating Roof	Y					X				-			
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating Roof	Y		X	X						-			
63.123(f)	Storage Vessel Provisions . Recordkeeping--Group 1 Closed vent system and control device	Y									X			
63.123(f)(1)	Storage Vessel Provisions . Recordkeeping--Group 1 Closed vent system and control device – records of parameters monitored in accordance with 63.120(d)(5)	Y									X			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.123(f)(2)	Storage Vessel Provisions . Recordkeeping--Group 1 Closed vent system and control device – record of planned routine maintenance performed on control device including	Y									X			
63.123(f)(2)(i)	Start date of planned routine maintenance	Y									X			
63.123(f)(2)(ii)	End date of planned routine maintenance	Y									X			
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y		X	X		X				X			
63.148	Leak inspection provisions	Y									X			
63.148(a)	Leak inspection provisions; for each vapor collection system, closed-vent system, fixed roof, cover, or enclosure required to comply with this section, the owner or operator shall comply with the requirements of paragraphs (b) through (j) of this section.	Y									X			
63.148(b)	Leak inspection provisions; Except as provided in paragraphs (g) and (h) of this section, each vapor collection system and closed-vent system shall be inspected according to the procedures and schedule specified in paragraphs (b)(1) and (b)(2) of this section and each fixed roof, cover, and enclosure shall be inspected according to the procedures and schedule specified in paragraph (b)(3) of this section.	Y									X			
63.148(b)(1)	If the vapor collection system or closed vent system is constructed of hard-piping, the owner or operator shall:	Y									X			
63.148(b)(1)(i)	Conduct an initial inspection according to the procedures in paragraph (c) of this section, and	Y									X			
63.148(b)(1)(ii)	Conduct annual visual inspections for visible, audible, or olfactory indications of leaks.	Y									X			
63.148(b)(1)(iii)	For each fixed roof, cover, and enclosure, the owner or operator shall conduct initial visual inspections and semi-annual visual inspections for visible, audible, or olfactory indications of leaks as specified in §§63.133 through 63.137 of this subpart.	Y									X			
63.148(c)	Each vapor collection system and closed vent system shall be inspected according to the procedures specified in paragraphs (c)(1) through (c)(5) of this section.	Y									X			
63.148(c)(1)	Inspections shall be conducted in accordance with Method 21 of 40 CFR part 60, appendix A.	Y									X			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.148(c)(2)(i)	The detection instrument shall meet the performance criteria of Method 21 of 40 CFR part 60, appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 shall be for the average composition of the process fluid not each individual volatile organic compound in the stream. For process streams that contain nitrogen, air, or other inerts, which are not organic hazardous air pollutants or volatile organic compounds, the average stream response factor shall be calculated on an inert-free basis.	Y									✘			
63.148(c)(3)	The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR part 60, appendix A.	Y									✘			
63.148(c)(4)	Method 21 calibration gas requirements	Y									✘			
63.148(c)(5)	An owner or operator may elect to adjust or not adjust instrument readings for background. If an owner or operator elects to not adjust readings for background, all such instrument readings shall be compared directly to the applicable leak definition to determine whether there is a leak. If an owner or operator elects to adjust instrument readings for background, the owner or operator shall measure background concentration using the procedures in §§63.180(b) and (c) of subpart H of this part. The owner or operator shall subtract background reading from the maximum concentration indicated by the instrument	Y									✘			
63.148(c)(6)	The arithmetic difference between the maximum concentration indicated by the instrument and the background level shall be compared with 500 parts per million for determining compliance.	Y									✘			
63.148(d)	Leaks, as indicated by an instrument reading greater than 500 parts per million above background or by visual inspections, shall be repaired as soon as practicable, except as provided in paragraph (e) of this section.	Y									✘			
63.148(d)(1)	A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.	Y									✘			
63.148(d)(2)	Repair shall be completed no later than 15 calendar days after the leak is detected.	Y									✘			
63.148(e)	Delay of repair of a vapor collection system, closed vent system, fixed roof, cover, or enclosure for which leaks have been detected is allowed if the repair is technically infeasible without a shutdown, or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next shutdown.	Y									✘			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.148(f)	For each vapor collection system or closed vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the owner or operator shall comply with the provisions of either paragraph (f)(1) or (f)(2) of this section, except as provided in paragraph (f)(3) of this section.	Y									✘			
63.148(f)(1)	Install, calibrate, maintain, and operate a flow indicator that determines whether vent stream flow is present at least once every 15 minutes. Records shall be generated as specified in §63.118(a)(3) of this subpart. The flow indicator shall be installed at the entrance to any bypass line; or	Y									✘			
63.148(f)(2)	Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.	Y									✘			
63.148(f)(3)	Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes are not subject to this paragraph.	Y									✘			
63.148(g)	Any parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated, as described in paragraph (i)(1) of this section, as unsafe to inspect are exempt from the inspection requirements of paragraphs (b)(1), (b)(2), and (b)(3)(i) of this section if:	Y									✘			
63.148(g)(1)	The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with paragraphs (b)(1), (b)(2), or (b)(3)(i) of this section; and	Y									✘			
63.148(g)(2)	The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times.	Y									✘			
63.148(h)	Any parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated, as described in paragraph (i)(2) of this section, as difficult to inspect are exempt from the inspection requirements of paragraphs (b)(1), (b)(2), and (b)(3)(i) of this section if:	Y									✘			
63.148(h)(1)	The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and	Y									✘			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.148(h)(2)	The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years.	Y									X			
63.148(i)	The owner or operator shall record the information specified in paragraphs (i)(1) through (i)(5) of this section.	Y									X			
63.148(i)(1)	Identification of all parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated as unsafe to inspect, an explanation of why the equipment is unsafe to inspect, and the plan for inspecting the equipment.	Y									X			
63.148(i)(2)	Identification of all parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated as difficult to inspect, an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment.	Y									X			
63.148(i)(3)	For each vapor collection system or closed vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the owner or operator shall keep a record of the information specified in either paragraph (i)(3)(i) or (i)(3)(ii) of this section.	Y									X			
63.148(i)(3)(i)	Hourly records of whether the flow indicator specified under paragraph (f)(1) of this section was operating and whether a diversion was detected at any time during the hour, as well as records of the times of all periods when the vent stream is diverted from the control device or the flow indicator is not operating.	Y									X			
63.148(i)(3)(ii)	Where a seal mechanism is used to comply with paragraph (f)(2) of this section, hourly records of flow are not required. In such cases, the owner or operator shall record whether the monthly visual inspection of the seals or closure mechanisms has been done, and shall record the occurrence of all periods when the seal mechanism is broken, the bypass line valve position has changed, or the key for a lock-and-key type configuration has been checked out, and records of any car-seal that has broken.	Y									X			
63.148(i)(4)	For each inspection during which a leak is detected, a record of the information specified in paragraphs (i)(4)(i) through (i)(4)(viii) of this section.	Y									X			
63.148(i)(4)(i)	The instrument identification numbers; operator name or initials; and identification of the equipment.	Y									X			
63.148(i)(4)(ii)	The date the leak was detected and the date of the first attempt to repair the leak.	Y									X			
63.148(i)(4)(iii)	Maximum instrument reading measured by the method specified in paragraph (d) of this section after the leak is successfully repaired or determined to be nonreparable.	Y									X			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.148(i)(4)(iv)	“Repair delayed” and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.	Y									X			
63.148(i)(4)(v)	The name, initials, or other form of identification of the owner or operator (or designee) whose decision it was that repair could not be effected without a shutdown.	Y									X			
63.148(i)(4)(vi)	The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days.	Y									X			
63.148(i)(4)(vii)	Dates of shutdowns that occur while the equipment is unrepaired.	Y									X			
63.148(i)(4)(viii)	The date of successful repair of the leak.	Y									X			
63.148(i)(5)	For each inspection conducted in accordance with paragraph (c) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.	Y									X			
63.148(i)(6)	For each visual inspection conducted in accordance with paragraph (b)(1)(ii) or (b)(3)(ii) of this section during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.	Y									X			
63.148(j)	The owner or operator shall submit with the reports required by §63.182(b) of subpart H of this part or with the reports required by §63.152(c) of this subpart [63.654(g) of Subpart CC], the information specified in paragraphs (j)(1) through (j)(3) of this section.	Y									X			
63.148(j)(1)	The information specified in paragraph (i)(4) of this section;	Y									X			
63.148(j)(2)	Reports of the times of all periods recorded under paragraph (i)(3)(i) of this section when the vent stream is diverted from the control device through a bypass line; and	Y									X			
63.148(j)(3)	Reports of all periods recorded under paragraph (i)(3)(ii) of this section in which the seal mechanism is broken, the bypass line valve position has changed, or the key to unlock the bypass line valve was checked out.	Y									X			
40 CFR 63 Subpart CC	NESHAPS for Source Categories - Petroleum Refineries (MACT) (06/03/2003)										-			
63.640	Applicability	Y	B D	X	X	X	X	X	X	X	X			
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	B D	X	X	A B	X	A B	X	X	X			
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y				C		C						
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	<u>Y</u>	<u>D</u>						<u>X</u>		<u>X</u>			

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Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.640(d)(5)	Exclusion for emission points routed to fuel gas system. <u>No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.</u>	Y	D						X		X			
63.640(n)	Applicability and Designation of Affected Source Overlap for Storage Vessels	Y			X	A B		X						
63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8).	Y				A B		X			-			
63.640(n)(5)	Applicability and Designation of Affected Source Overlap for Storage Vessels—Existing Group 1 also subject to K or Ka only subject to this subpart	Y			X						-			
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y				A B		X			-			
63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Secondary Seal Exemption	Y				A B		X			-			
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Unsafe to perform gap measurement or inspection	Y				A B		X			-			
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Repair failure within 45 days or use extension	Y				A B		X			-			
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Report extension utilized	Y				A B		X			-			
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Submit Kb inspection records as part of CC Report	Y				A B		X			-			
63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Rim seal inspection report	Y				A B		X			-			
63.641	Definitions:	Y	B	X	X	X	X	X			X			
63.646	Storage Vessel Provisions	Y	B	X	X		X				X			
63.646(a)	Storage Vessel Provisions--Group 1, Comply with Subpart G 63.119 through 63.121.	Y		X	X		X				X			
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	B	X	X		X				X			
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	B	X	X		X				X			
63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels 63.119(b)(5); (b)(6); (c)(2); and (d)(2) are not applicable	Y		X	X		X				X			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.646(d)	Storage Vessel Provisions--How to handle references in 40 CFR 63 Subpart G for storage vessels	Y		X	X		X				X			
63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G for gaskets, slotted membranes, and sleeve seals	Y		X	X		X				-			
63.646(f)	Storage Vessel Provisions—Group 1 floating roof requirements	Y		X	X		X				-			
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements--Cover or lid	Y		X	X		X				-			
63.646(f)(2)	Storage Vessel Provisions—Group 1 floating roof requirements--Rim space	Y		X	X		X				-			
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements--Automatic bleeder vents	Y		X	X		X				-			
63.646(g)	Storage Vessel Provisions—Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart.	Y		X	X		X				X			
63.646(h)	Storage Vessel Provisions—References in 63.119 through 63.121 to 63.122(g)(1), 63.151, and references to initial notification requirements do not apply	Y		X	X		X				X			
63.646(i)	Storage Vessel Provisions—References to the Implementation Plan in 63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.	Y									X			
63.646(j)	Storage Vessel Provisions—References to the Notification of Compliance Status Report in 63.152(b) shall be replaced with 63.654(f).	Y		X	X		X				X			
63.646(k)	Storage Vessel Provisions—References to the Periodic Reports in 63.152(c) shall be replaced with 63.654(g).	Y		X	X		X				X			
63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements	Y		X	X		X				-			
63.647	Wastewater Provisions	Y				C		C			-			
63.647(a)	Wastewater Provisions--Group 1 wastewater streams must comply with 61.340-61.355 (Subpart FF)	Y				C		C						
63.647(c)	Wastewater Provisions--Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y				C		C						
63.654	Reporting and Recordkeeping Requirements	Y		X	X	X	X	X			X			
63.654(a)	Reporting and Recordkeeping Requirements--Group 1 wastewater streams must comply with 61.356 and 61.357 (Subpart FF)	Y				C		C						
63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y		X	X		X				X			

**Table IV – F.3
 Source-specific Applicable Requirements
 TANK GROUP APPLICABLE REQUIREMENTS**

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y		X	X		X				X			
63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y		X	X		X				X			
63.654(g)	Reporting and Recordkeeping Requirements—Periodic Reports	Y		X	X	X	X	X			X			
63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements-Periodic Reports-storage vessels	Y		X	X	X	X	X			X			
63.654(g)(2)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X				-			
63.654(g)(2)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X				-			
63.654(g)(2)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X				-			
63.654(g)(2)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X				-			
63.654(g)(2)(ii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X				-			
63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X						-			
63.654(g)(5)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y									X			
63.654(g)(5)(i)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y									X			
63.654(g)(5)(i)(A)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y									X			

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.654(g)(5)(i)(B)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y									X			
63.654(g)(5)(ii)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y									X			
63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				X			
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				X			
63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				X			
63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				-			
63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				X			
63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X				-			
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	B	X	X		X				X			
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	B	X	X		X				X			
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	B	X	X		X				X			
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	B	X	X		X				X			
63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	B	X	X		X				X			
63.654(i)(2)	Reporting and Recordkeeping Requirements—Performance test records	Y									X			
63.654(i)(4)	Reporting and Recordkeeping Requirements—Record retention	Y	B	X	X		X				X			
40 CFR 61 Subpart FF	NESHAPS – Benzene Waste Operations (12/04/2003)													
61.340	Applicability	Y				C		C	B D	X		X		
61.340(a)	Applicability: Petroleum Refineries	Y				C		C	B D	X		X		
61.340(d)	Exemption: gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system are exempt from Subpart FF	Y							B D					
61.342(e)	Standards: General; Compliance option - Treat to 6 or 6BQ Option	Y								X				
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y								X				
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y								X				

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y								X				
61.343	Standards: Tanks	Y							B D			X		
61.343(a)	Standards: Tanks; Benzene-containing wastes, comply with (a)(1) or (a)(2)	Y							B D			X		
61.343(a)(1)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	Y							B D			X		
61.343(a)(1)(i)(A)	Standards: Tanks---No detectable emissions >= 500 ppmv; annual inspection	Y							B D			X		
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y							B D			X		
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems and control device are subject to 61.349	Y							B D			X		
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y							B D			X		
61.343(d)	Standards: Tanks; Fixed roof repairs	Y							B D			X		
61.349	Standards: Closed-Vent Systems and Control Devices	Y							B D			X		
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y							B D			X		
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y							B D			X		
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y							B D			X		
61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y							B D			X		
61.349(a)(1)(iv)	Safety valve provisions	Y							B D			X		
61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y										X		
61.349(a)(2)(iii)	A flare shall comply with the requirements of 40 CFR 60.18	Y							B D					
61.349(b)	Operated at all times.	Y										X		
61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y										X		
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y										X		
61.349(f)	Visually inspect for leaks quarterly	Y							B D			X		
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y							B D			X		
61.349(h)	Monitor per 61.354(c)	Y										X		

Table IV – F.3
Source-specific Applicable Requirements
TANK GROUP APPLICABLE REQUIREMENTS

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
61.351	Alternative Standards for Tanks	Y				C		C						
61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 60.112b(a)(1)	Y						C			-			
61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 60.112b(a)(2)	Y				C					-			
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y				C		C			-			
61.354	Monitoring of Operations	Y							B D			X		
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y							B D			X		
61.354(e)(3)	Monitoring of Operations; Closed-vent systems and control devices--For a flare, a monitoring device in accordance with 40 CFR 60.18(f)(2) equipped with a continuous recorder.	Y							B D					
61.354(d)	Monitoring of Operations; Closed-vent systems and control devices--Non-regenerate carbon adsorption system requirements	Y										X		
61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y							B D			X		
61.355	Test methods, procedures, and compliance provisions	Y							B D			X		
61.355(h)	Test methods, procedures, and compliance provisions; NDE inspection (Method 21)	Y							B D			X		
61.355(i)	Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test	Y										X		
61.356	Recordkeeping Requirements	Y				C		C	B D			X		
61.356(f)	Recordkeeping Requirements: Closed vent system and control device – life retention records	Y										X		
61.356(f)(3)	Recordkeeping Requirements: Closed vent system and control device – life retention records – Performance tests	Y										X		
61.356(h)	Recordkeeping Requirements: NDE test results	Y							B D			X		
61.356(j)	Recordkeeping Requirements: Control device	Y							B D			X		
61.356(j)(1)	Recordkeeping Requirements: Control device – startup and shutdown dates	Y										X		
61.356(j)(2)	Recordkeeping Requirements: Control device – operating parameter	Y										X		
61.356(j)(3)	Recordkeeping Requirements: Control device – periods when not operated as designed	Y										X		
61.356(j)(3)(i)	Recordkeeping Requirements: Control device – periods and duration when any valve car-seal required under 61.349(a)(1)(ii) is broken or the bypass line valve position has changed.	Y							B D			X		

**Table IV – F.3
 Source-specific Applicable Requirements
 TANK GROUP APPLICABLE REQUIREMENTS**

Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
61.356(j)(7)	Recordkeeping Requirements: Control device—If a flare is used, then the owner or operator shall maintain continuous records of the flare pilot flame monitoring and records of all periods during which the pilot flame is absent.	Y							B					
61.356(j)(9)	Recordkeeping Requirements: Control device – If a carbon adsorber is used, maintain records from monitoring device of concentration of organics or concentration of benzene in control device outlet gas stream. Other recordkeeping requirements	Y										X		
61.356(j)(10)	Recordkeeping Requirements: Control device – If a carbon adsorber that is not regenerated directly on site in the control device is used, then maintain records of dates and times when the control device is monitored, when breakthrough is measured, and the dates and times of carbon replacement.	Y										X		
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 60.115b	Y				C		C			-			
61.357	Reporting Requirements	Y				C		C						
61.357(d)	Reporting Requirements: Required report submittals	Y										X		
61.357(d)(6)	Reporting requirements: Quarterly certification of inspections	Y							B D			X		
61.357(d)(7)	Reporting Requirements: Quarterly reports	Y										X		
61.357(d)(7)(iv)	Reporting Requirements: Quarterly reports; control device information	Y										X		
61.357(d)(7)(iv)(D)	Reporting Requirements: Quarterly reports; control device information – Carbon emission exceedances	Y										X		
61.357(d)(7)(iv)(I)	Reporting Requirements: Quarterly reports; control device information – Carbon not replaced when required	Y										X		
61.357(d)(8)	Reporting Requirements: Annual report – summary of NDE inspections and required repairs	Y							B D			X		
61.357(e)	Reporting Requirements: Notification required for election to comply with 61.351 or 61.352 alternative standards.	Y				C		C						
61.357(f)	Reporting Requirements: 61.351 control equipment must comply with 60.115b	Y				C		C						

SECTION G - WASTEWATER SOURCES

Table IV – G.1
Source-Specific Applicable Requirements
WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds - Wastewater Collection and Separation Systems (09/15/2004)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
<u>8-8-116</u>	<u>Limited Exemption, Oil-water Separation Trenches</u>	<u>N</u>	
<u>8-8-308</u>	<u>Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.</u>	<u>Y</u>	
<u>8-8-312</u>	<u>Controlled Wastewater Collection System Components at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-313</u>	<u>Uncontrolled Wastewater Collection System Components at Petroleum Refineries; comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources</u>	<u>N</u>	
<u>8-8-313.2</u>	<u>Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option</u>	<u>N</u>	
<u>8-8-314</u>	<u>New Wastewater Collection System Components at Petroleum Refineries ; equip new components with water seal or equivalent control</u>	<u>N</u>	
<u>8-8-402</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-402.1</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries : ID all components and submit to BAAQMD</u>	<u>N</u>	
<u>8-8-402.2</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; complete initial inspection of components</u>	<u>N</u>	
<u>8-8-402.3</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; implement 8-8-313.2 Inspection and Maintenance Plan</u>	<u>N</u>	
<u>8-8-402.4</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; semi-annual inspections of controlled equipment</u>	<u>N</u>	
<u>8-8-402.5</u>	<u>Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; keep records per 8-8-505</u>	<u>N</u>	
<u>8-8-502</u>	<u>Wastewater Critical Organic Compound Concentration or Temperature Records</u>	<u>Y</u>	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-8-505</u>	<u>Records for Wastewater Collection System Components at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-505.1</u>	<u>Records for Wastewater Collection System Components at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-505.2</u>	<u>Records for Wastewater Collection System Components at Petroleum</u>	<u>N</u>	

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Table IV – G.1
Source-Specific Applicable Requirements
WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>Refineries</u>		
<u>8-8-505.3</u>	<u>Records for Wastewater Collection System Components at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-505.4</u>	<u>Records for Wastewater Collection System Components at Petroleum Refineries</u>	<u>N</u>	
<u>8-8-601</u>	<u>Wastewater Analysis for Critical Organic Compounds</u>	<u>N</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>N</u>	
<u>SIP Regulation 8 Rule 8</u>	<u>Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
<u>8-8-601</u>	<u>Wastewater Analysis for Critical OCs</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	

Table IV – G.2
Source-Specific Applicable Requirements
INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-69</u>	<u>Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems</u>	<u>Y</u>	
<u>40 CFR 60 Subpart QQQ</u>	<u>NSPS - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/2000)</u>		
<u>60.690</u>	<u>Applicability and designation of affected facility</u>	<u>Y</u>	
<u>60.690(a)(1)</u>	<u>Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987</u>	<u>Y</u>	
<u>60.690(a)(2)</u>	<u>An individual drain system is a separate affected facility [all process drains connected to the first common downstream junction box. The term includes all such drains and common junction box, together with their associated sewer lines and other junction boxes, down to the receiving oil-water separator]</u>	<u>Y</u>	
<u>60.690(a)(4)</u>	<u>An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators,</u>	<u>Y</u>	

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Table IV – G.2
Source-Specific Applicable Requirements
INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>down to and including the secondary oil-water separator, as applicable]</u>		
<u>60.691</u>	<u>Definitions</u>	<u>Y</u>	
<u>60.692-1</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-1(a)</u>	<u>Standards: General; Comply except during <u>periods of startup, shutdown, or malfunction</u></u>	<u>Y</u>	
<u>60.692-1(b)</u>	<u>Standards: General; Determination of compliance</u>	<u>Y</u>	
<u>60.692-1(c)</u>	<u>Standards: General; Alternative means of compliance</u>	<u>Y</u>	
<u>60.692-1(d)</u>	<u>Standards: General; Exemptions</u>	<u>Y</u>	
<u>60.692-2</u>	<u>Standards: Individual drain systems</u>	<u>Y</u>	
<u>60.692-2(a)(1)</u>	<u>Standards: Individual drain systems; equip each drain with water seal</u>	<u>Y</u>	
<u>60.692-2(a)(2)</u>	<u>Standards: Individual drain systems; Drains in active service - Monthly visual or physical inspections for low water level or other problem</u>	<u>Y</u>	
<u>60.692-2(a)(3)</u>	<u>Standards: Individual drain systems; Drains out of active service - Weekly visual or physical inspections for low water level or other problem</u>	<u>Y</u>	
<u>60.692-2(a)(4)</u>	<u>Standards: Individual drain systems; Drains out of active service – Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections</u>	<u>Y</u>	
<u>60.692-2(a)(5)</u>	<u>Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6)</u>	<u>Y</u>	
<u>60.692-2(b)(1)</u>	<u>Standards: Individual drain systems; Junction box requirements – vent pipes</u>	<u>Y</u>	
<u>60.692-2(b)(2)</u>	<u>Standards: Individual drain systems; Junction box requirements – sealed covers</u>	<u>Y</u>	
<u>60.692-2(b)(3)</u>	<u>Standards: Individual drain systems; Junction box requirements – sealed covers - semiannual visual inspections</u>	<u>Y</u>	
<u>60.692-2(b)(4)</u>	<u>Standards: Individual drain systems; Junction box requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)</u>	<u>Y</u>	
<u>60.692-2(c)(1)</u>	<u>Standards: Individual drain systems; Sewer line requirements – no visual gaps or cracks</u>	<u>Y</u>	
<u>60.692-2(c)(2)</u>	<u>Standards: Individual drain systems; Sewer line requirements – semiannual inspections of unburied sewer lines</u>	<u>Y</u>	
<u>60.692-2(c)(3)</u>	<u>Standards: Individual drain systems; Sewer line requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)</u>	<u>Y</u>	
<u>60.692-2(d)</u>	<u>Standards: Individual drain systems; Exemption for systems with catch basins installed prior to May 4, 1987</u>	<u>Y</u>	
<u>60.692-2(e)</u>	<u>Standards: Individual drain systems; Refinery wastewater routed through new process drains and a new first common downstream junction box as part of new or existing individual drain system, shall not be routed through a</u>	<u>Y</u>	

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Table IV – G.2
Source-Specific Applicable Requirements
INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>downstream catch basin.</u>		
<u>60.692-4</u>	<u>Standards: Aggregate facility</u>	<u>Y</u>	
<u>60.692-6</u>	<u>Standards: Delay of repair</u>	<u>Y</u>	
<u>60.692-6(a)</u>	<u>Standards: Delay of repair; Allowances for delay or repair</u>	<u>Y</u>	
<u>60.692-6(b)</u>	<u>Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown</u>	<u>Y</u>	
<u>60.697</u>	<u>Recordkeeping requirements</u>	<u>Y</u>	
<u>60.697(a)</u>	<u>Recordkeeping requirements; retention</u>	<u>Y</u>	
<u>60.697(b)(1)</u>	<u>Recordkeeping requirements; individual drain systems – records of corrective actions when inspections detect dry water seals or other problems</u>	<u>Y</u>	
<u>60.697(b)(2)</u>	<u>Recordkeeping requirements; junction boxes – records of corrective actions when inspections detect problems</u>	<u>Y</u>	
<u>60.697(b)(3)</u>	<u>Recordkeeping requirements; sewer lines – records of corrective actions when inspections detect r problems</u>	<u>Y</u>	
<u>60.697(e)(1)</u>	<u>Recordkeeping requirements; delay of repair - expected date of repair</u>	<u>Y</u>	
<u>60.697(e)(2)</u>	<u>Recordkeeping requirements; delay of repair – reason for delay</u>	<u>Y</u>	
<u>60.697(e)(3)</u>	<u>Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]</u>	<u>Y</u>	
<u>60.697(e)(4)</u>	<u>Recordkeeping requirements; delay of repair - actual date of repair</u>	<u>Y</u>	
<u>60.697(f)(1)</u>	<u>Recordkeeping requirements; design specifications – retain for life of equipment</u>	<u>Y</u>	
<u>60.697(f)(2)</u>	<u>Recordkeeping requirements; design specifications – information required</u>	<u>Y</u>	
<u>60.697(g)</u>	<u>Recordkeeping requirements; plans showing location of drains with caps and plugs – retain for life of facility</u>	<u>Y</u>	
<u>60.697(h)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.697(i)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.697(j)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.698</u>	<u>Reporting requirements</u>	<u>Y</u>	
<u>60.698(b)(1)</u>	<u>Reporting requirements; semiannual certification of required inspections</u>	<u>Y</u>	
<u>60.698(c)</u>	<u>Reporting requirements; semiannual summary of all inspections that detected dry water seals, missing or incorrectly installed drain cap or plug, or other problems including repairs and corrective actions</u>	<u>Y</u>	
<u>40 CFR 61 Subpart FF</u>	<u>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]</u>		
<u>61.340(a)</u>	<u>Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
<u>61.342(e)</u>	<u>Standards: General; Requirements for Treat to 6 (6BQ) facility</u>	<u>Y</u>	
<u>61.342(e)(2)</u>	<u>Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;</u>	<u>Y</u>	

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Table IV – G.2
Source-Specific Applicable Requirements
INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBO)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
40 CFR 63 Subpart CC	NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.640(o)(1)	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	Y	
63.641	Definitions	Y	

Table IV – CI Cluster 25G.3
Source-specific Applicable Requirements
S513 – Tank A-513
Wastewater Sludge Tank –Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS –(11/27/02)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3-day-prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	

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Table IV – CI Cluster 25G.3
Source-specific Applicable Requirements
S513 – Tank A-513
Wastewater Sludge Tank – Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Tanks in Operation	N	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	N	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	N	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	N	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	N	
8-5-303	Requirements for Pressure Vacuum Valve	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-328	Tank Degassing Requirements	N	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	N	
8-5-404	Certification	N	
8-5-405	Information Required	N	
8-5-501	Records	N	
8-5-502	Tank Degassing Annual Source Test Requirement	N	
8-5-503	Portable Hydrocarbon Detector	N	
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems (09/15/2004)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
8-8-303	Gauging and Sampling Devices	Y	
8-8-304	Sludge-dewatering Unit – 95% control requirement	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emission	N	
8-8-603	Inspection Procedures	N	
<u>SIP Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
8-8-304	Sludge-dewatering Unit – 95% control requirement	Y	
8-8-602	Determination of Emission	Y	
8-8-603	Inspection Procedures	Y	

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**Table IV – ~~CI Cluster 25G.3~~
 Source-specific Applicable Requirements
 S513 – Tank A-513
 Wastewater Sludge Tank – ~~Abated by~~ A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984</u>	<u>Y</u>	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
<u>40 CFR 60 Subpart Kb</u>	<u>NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)</u> <u>Requirements For Fixed Roof Tanks</u>		
<u>60.110b(a)</u>	<u>Applicability and designation of affected facility; applicable storage vessels</u>	<u>Y</u>	
<u>60.112b</u>	<u>Standard for VOC</u>	<u>Y</u>	
<u>60.112b(a)</u>	<u>Standard for VOC; storage vessel equipment requirements</u>	<u>Y</u>	
<u>60.112b(a)(3)</u>	<u>Standard for VOC; storage vessel equipment requirements; closed vent system and control device</u>	<u>Y</u>	
<u>60.112b(a)(3)(i)</u>	<u>Standard for VOC; storage vessel equipment requirements; closed vent system and control device; closed vent system – no detectable emissions [< 500 ppm by Method 21]</u>	<u>Y</u>	
<u>60.112b(a)(3)(ii)</u>	<u>Standard for VOC; f storage vessel equipment requirements; closed vent system and control device; control device with 95% abatement efficiency or flare meeting the specifications in 60.18.</u>	<u>Y</u>	
<u>60.113b</u>	<u>Testing and procedures</u>	<u>Y</u>	
<u>60.113b(c)</u>	<u>Testing and procedures; closed vent system and control device (other than a flare) – exempt from 60.8; requirements</u>	<u>Y</u>	
<u>60.113b(c)(1)</u>	<u>Testing and procedures; closed vent system and control device; operating plan submittal</u>	<u>Y</u>	
<u>60.113b(c)(1)(i)</u>	<u>Testing and procedures; closed vent system and control device; operating plan contents – meet requirements for enclosed combustion device</u>	<u>Y</u>	
<u>60.113b(c)(1)(ii)</u>	<u>Testing and procedures; closed vent system and control device; operating plan contents</u>	<u>Y</u>	
<u>60.113b(d)</u>	<u>Flare used to meet the requirements of 60.112b(a)(3) shall meet the requirements of 60.18 (e) and (f)</u>		
<u>60.115b</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.115b(c)</u>	<u>Reporting and recordkeeping requirements; closed vent system and control</u>	<u>Y</u>	

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**Table IV – ~~CI Cluster 25G.3~~
 Source-specific Applicable Requirements
 S513 – Tank A-513
Wastewater Sludge Tank – Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>device (other than a flare)</u>		
<u>60.115b(c)(1)</u>	<u>Reporting and recordkeeping requirements; closed vent system and control device (other than a flare), copy of operating plan</u>	<u>Y</u>	
<u>60.116b</u>	<u>Monitoring of operations</u>	<u>Y</u>	
<u>60.116b(a)</u>	<u>Monitoring of operations; record retention</u>	<u>Y</u>	
<u>60.116b(b)</u>	<u>Monitoring of operations; permanent record requirements</u>	<u>Y</u>	
<u>60.116b(g)</u>	<u>Monitoring of operations; Vessel equipped with closed vent system and control device is exempt from 60.116b(c) and (d)</u>	<u>Y</u>	
<u>40 CFR 61 Subpart FF</u>	<u>NESHAPS - Benzene Waste Operations (12/04/2003)</u> <u>Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]</u>		
<u>61.340(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>61.342(e)</u>	<u>Standards: General; Requirements for Treat to 6 (6BQ) facility</u>	<u>Y</u>	
<u>61.342(e)(2)</u>	<u>Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;</u>	<u>Y</u>	
<u>61.342(e)(2)(i)</u>	<u>Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).</u>	<u>Y</u>	
<u>61.342(e)(2)(ii)</u>	<u>Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).</u>	<u>Y</u>	
<u>40 CFR 63 Subpart CC</u>	<u>NESHAPS for Source Categories - Petroleum Refineries -(06/23/2003)</u> <u>Requirements for Group 2 wastewater streams</u>		
<u>63.640(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.640(c)(3)</u>	<u>Applicability – wastewater source</u>	<u>Y</u>	
<u>63.640(d)</u>	<u>Applicability and Designation of Affected Sources: Exclusions</u>	<u>Y</u>	
<u>63.640(d)(5)</u>	<u>The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.</u>	<u>Y</u>	
<u>63.641</u>	<u>Definitions</u>	<u>Y</u>	
Refinery MACT	<u>NESHAP for Petroleum Refineries</u> <u>REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</u>	<u>Y</u>	
<u>63.640(n)</u>	<u>Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?</u>	<u>63.640(n)(1)</u> NSPS subpart Kb	
	<u>Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal?</u>	<u>63.640(n)(8)(i)</u> YES	
		<u>Y</u>	

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Table IV – CI Cluster 25G.3
Source-specific Applicable Requirements
S513 – Tank A-513
Wastewater Sludge Tank – Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK CONTROL DEVICE	Y	
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
60.113b(e)(2)	Control device (other than flare) Operating requirements:	60.113b(e)(2) operate and monitor per the plan	Y
60.115b	Recordkeeping for inspections:	60.115b	Y

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Table IV – ~~CI Cluster 25G.3~~
Source-specific Applicable Requirements
S513 – Tank A-513
Wastewater Sludge Tank – ~~Abated by~~ A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Keep inspection reports as specified.	Keep required records for 5 years	
60.115b(e)	Recordkeeping for tanks routed to a control device other than a flare:	60.115b(e) operating plan & records of parametric monitoring data	Y
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.116b(a) Keep required records for 5 years	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) identification & 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
60.116b(g)	Applicability determination: Miscellaneous recordkeeping exemptions:	60.116b(g) keeping record of TVP is not required if tank is routed to a compliant control device	Y
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS	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) 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	60.7(a)(4) notification 60 days or as soon as	Y

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**Table IV – ~~CI Cluster 25G.3~~
 Source-specific Applicable Requirements
 S513 – Tank A-513
 Wastewater Sludge Tank – Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	if tank becomes affected only as a result of a modification?	practicable before the change	
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) Keep all reports & notifications for 2 years	Y
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	60.7(f) required	Y
60.14(e)	Achieve compliance for: New Tanks (or tanks that become affected as a result of a change or modification)?	60.14(e) up to 180 days after modifications (otherwise prior to fill)	Y
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 19528 <u>21053</u>			
Part 6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y	
<u>Part 7</u>	<u>40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (S-908, S-909, S-912, S-913 only)</u>	<u>Y</u>	

**Table IV – ~~IaG.4~~
 Source-specific Applicable Requirements
 S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 VAPOR RECOVERY**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8; Rule 8	<u>Organic Compounds – Wastewater Collection and Separation Systems (09/15/2004)</u> Wastewater (Oil-Water) Separator (8/29/94)		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
8-8-301	Wastewater separators rated capacity greater than 760 Liters per Day and Smaller than 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	Y N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator and/or Air Flotation Unit Slop-Oil Vessels must be equipped with one of the following:	Y	
8-8-305.2	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight	Y	
8-8-503	Inspection and Repair Records	Y	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>N</u>	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	<u>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>Y</u>	
8-8-603	Inspection Procedures	Y	
BAAQMD Regulation 11 Rule 12	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</u>	Y	
40 CFR 61 Subpart FF	<u>NESHAPS - Benzene Waste Operations (12/04/2003)</u> <u>Requirements for controlled 6BQ wastestream [61.342(e)(1)]</u>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(d)	Exemption: Any gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system, as defined in §61.341, is exempt from this subpart	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	

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Table IV – IaG.4
Source-specific Applicable Requirements
S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.347	Standards: Oil-Water Separators	Y	
61.347(a)	Standards: Oil-Water Separators	Y	
61.347(a)(1)	Standards: Oil-Water Separators; fixed roof and close-vent system vented to control device	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; fixed roof requirements	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators; fixed roof requirements – no detectable emissions	Y	
61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; fixed roof requirements – openings closed and sealed when not in use	Y	
61.347(a)(1)(ii)	Standards: Closed vent system and control device designed and operated in accordance with 61.349.	Y	
61.347(b)	Standards: Oil-Water Separators; quarterly visual inspections	Y	
61.347(c)(1)(i)	Standards: Oil-Water Separators; repairs and delay of repair	Y	
61.347(a)(1)(ii)	Standards: Closed vent system and control device designed and operated in accordance with 61.349.	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349(a)(1)	Standards: Closed vent systems and control devices; closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed vent systems and control devices; closed vent system requirements – no detectable emissions	Y	
61.349(a)(1)(ii)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements	Y	
61.349(a)(1)(ii)(A)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: flow indicator	Y	

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Table IV – IaG.4
Source-specific Applicable Requirements
S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.349(a)(1)(ii)(B)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: car-seal or lock and key	Y	
61.349(a)(1)(iii)	Standards: Closed vent systems and control devices; closed vent system requirements - gauging and sampling devices gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed vent systems and control devices; closed vent system requirements - atmospheric vents	Y	
61.349(a)(2)	Control Device Design and Operating requirements	Y	
61.349(a)(2)(i)	Flare shall comply with 40 CFR 60.18 Enclosed Combustion Device Requirements	Y	
61.349(b)	Standards: Closed vent systems and control devices; operate at all times	Y	
61.349(f)	Standards: Closed vent systems and control devices; quarterly visual inspections	Y	
61.349(g)	Standards: Closed vent systems and control devices; repairs and delay of repair	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(f)	Monitoring of operations; closed-vent system with bypass line	Y	
61.354(f)(1)	Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used	Y	
61.354(f)(2)	Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(h)	Test methods, procedures, and compliance provisions – no detectable emissions tests	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y	
61.356(h)	Recordkeeping requirements; no detectable emissions tests	Y	
61.356(j)	Recordkeeping requirements; closed vent system and control device operating records	Y	
61.356(j)(3)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed	Y	

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S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(j)(3)(i)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if car-seal OPTION is used	Y	
61.356(j)(3)(ii)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if flow indicator OPTION is used	Y	
61.357	Reporting requirements	Y	
61.357(d)	Reporting requirements; facilities with TAB > 10 Mg	Y	
61.357(d)(6)	Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections	Y	
61.357(d)(8)	Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections	Y	
40 CFR 63 Subpart CC	NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 1 wastewater streams		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater sources	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	
BAAQMD Condition 19762	(applies to S1484 only)		
Part B1	Throughput limit (basis: cumulative increase, toxics, BACT, offsets)	Y	
Part B2	Vapor tight (basis: Regulation 8-8, cumulative increase, toxics, offsets, BACT)	Y	
Part B3	Abatement at all times (basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)	Y	
Part B4	Recordkeeping of throughput (basis: cumulative increase, toxics, offsets)	Y	
BAAQMD Condition-# 20099	(applies to S532 only)		
Part 1	Throughput limit (basis: cumulative increase, toxics, BACT, offsets)	Y	

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S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Vapor tight (basis: Regulation 8-8, cumulative increase, toxics, offsets, BACT)	Y	
Part 3	Abatement at all times (basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)	Y	
Part 4	Destruction efficiency of 98% (basis: BACT)	Y	
Part 5	Startup source test requirement (basis: BACT)	Y	
Part 6	Periodic source test requirement (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238 BACT)	Y	
Part 7	Preventative maintenance conditions (basis: BACT)	Y	
Part 8	Monitoring and recordkeeping of throughput (basis: cumulative increase, toxics, offsets)	Y	
Part 9	Recordkeeping when abatement is not used (basis: cumulative increase, toxics, offsets)	Y	
Part 10	Requirement to shutdown S-46 (basis: offsets)	N	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – IG.5
Source-specific Applicable Requirements
S606-50 UNIT WASTEWATER AIR STRIPPER A
S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Miscellaneous Operations (6/15/94/20/2005)		
8-2-101	Description, Applicability	Y	

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S606-50 UNIT WASTEWATER AIR STRIPPER A
S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)	Y	
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for Group 1 wastewater streams		
61.340(a)	Applicability	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.348	Standards: Treatment processes	Y	
61.348(a)	Standards: Treatment processes	Y	
61.348(a)(1)	Standards: Treatment processes; requirements	Y	
61.348(a)(1)(i)	Standards: Treatment processes; requirements – OPTION – removes benzene in waste stream to a level less than 10 ppmw on flow-weighted annual average basis	Y	
61.348(a)(3)	Standards: Treatment processes; do not dilute effluent to meet 10 ppmw benzene requirement for 61.348(a)(1)(i)	Y	
61.348(c)	Standards: Treatment processes; demonstration of compliance	Y	
61.348(c)(2)	Standards: Treatment processes; demonstration of compliance; performance tests per 61.355	Y	

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S607-50 UNIT WASTEWATER AIR STRIPPER B
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.348(e)	Standards: Treatment processes; openings closed at all times except for inspection and maintenance	Y	
61.348(e)(1)	Standards: Treatment processes; openings inspected quarterly	Y	
61.348(e)(2)	Standards: Treatment processes; repair and delay of repair	Y	
61.348(f)	Standards: Treatment processes; administrator may request tests	Y	
61.348(g)	Standards: Treatment processes; monitor per 61.354	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349(a)(1)	Standards: Closed vent systems and control devices; closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed vent systems and control devices; closed vent system requirements – no detectable emissions	Y	
61.349(a)(1)(ii)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements	Y	
61.349(a)(1)(ii)(A)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: flow indicator	Y	
61.349(a)(1)(ii)(B)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: car-seal or lock and key	Y	
61.349(a)(1)(iii)	Standards: Closed vent systems and control devices; closed vent system requirements - gauging and sampling devices gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed vent systems and control devices; closed vent system requirements - atmospheric vents	Y	
61.349(a)(2)	Standards: Closed vent systems and control devices; control device requirements	Y	
61.349(a)(2)(i)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device	Y	
61.349(a)(2)(i)(A)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-reduce organic concentration by 95 % or more (weight)	Y	
61.349(a)(2)(i)(B)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-achieve total organic concentration of 20 ppmv per Method 18 on dry basis corrected to 3 percent oxygen	Y	
61.349(a)(2)(i)(C)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-minimum residence time of 0.5 seconds at minimum temperature of 1500 F and introduce vent stream into flame zone of boiler or process heater	Y	

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S606-50 UNIT WASTEWATER AIR STRIPPER A
S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>61.349(b)</u>	<u>Standards: Closed vent systems and control devices; operate at all times</u>	<u>Y</u>	
<u>61.349(c)</u>	<u>Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance</u>	<u>Y</u>	
<u>61.349(c)(2)</u>	<u>Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; performance tests per 61.355</u>	<u>Y</u>	
<u>61.349(e)</u>	<u>Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; administrator required</u>	<u>Y</u>	
<u>61.349(f)</u>	<u>Standards: Closed vent systems and control devices – quarterly visual inspections</u>	<u>Y</u>	
<u>61.349(g)</u>	<u>Standards: Closed vent systems and control devices – repair and delay of repair</u>	<u>Y</u>	
<u>61.349(h)</u>	<u>Standards: Closed vent systems and control devices; control device requirements – monitor control device per 61.354</u>	<u>Y</u>	
<u>61.350</u>	<u>Standards: Delay of repair</u>	<u>Y</u>	
<u>61.350(a)</u>	<u>Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.</u>	<u>Y</u>	
<u>61.350(b)</u>	<u>Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown</u>	<u>Y</u>	
<u>61.354</u>	<u>Monitoring of operations</u>	<u>Y</u>	
<u>61.354(a)</u>	<u>Monitoring of operations; treatment process</u>	<u>Y</u>	
<u>61.354(a)(1)</u>	<u>Monitoring of operations; treatment process; monitor benzene concentration in waste stream exiting treatment process at least monthly per 61.355(c)(3)</u>	<u>Y</u>	
<u>61.354(c)</u>	<u>Monitoring of operations; control device monitoring requirements</u>	<u>Y</u>	
<u>61.354(c)(5)</u>	<u>Monitoring of operations; control device monitoring requirements; boiler or process heater with heat input \geq 150 MMBTU/hr; install continuous parametric monitor to verify good combustion practices</u>	<u>Y</u>	
<u>61.354(f)</u>	<u>Monitoring of operations; closed-vent system with bypass line</u>	<u>Y</u>	
<u>61.354(f)(1)</u>	<u>Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used</u>	<u>Y</u>	
<u>61.354(f)(2)</u>	<u>Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used</u>	<u>Y</u>	
<u>61.355</u>	<u>Test methods, procedures, and compliance provisions</u>	<u>Y</u>	
<u>61.355(c)(3)</u>	<u>Test methods, procedures, and compliance provisions; methods to determine benzene concentration</u>	<u>Y</u>	

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S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>61.355(d)</u>	<u>Test methods, procedures, and compliance provisions; demonstrate compliance with 61.348(a)(1)(i) benzene concentration [reference: 61.355(c)(3)]</u>	<u>Y</u>	
<u>61.355(h)</u>	<u>Test methods, procedures, and compliance provisions – no detectable emissions tests</u>	<u>Y</u>	
<u>61.355(i)</u>	<u>Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test</u>	<u>Y</u>	
<u>61.356</u>	<u>Recordkeeping requirements</u>	<u>Y</u>	
<u>61.356(a)</u>	<u>Recordkeeping requirements; records and retention</u>	<u>Y</u>	
<u>61.356(e)</u>	<u>Recordkeeping requirements; treatment process design records</u>	<u>Y</u>	
<u>61.356(e)(1)</u>	<u>Recordkeeping requirements; treatment process; signed certification of design</u>	<u>Y</u>	
<u>61.356(e)(3)</u>	<u>Recordkeeping requirements; treatment process performance test records</u>	<u>Y</u>	
<u>61.356(e)(4)</u>	<u>Recordkeeping requirements; treatment process control device records</u>	<u>Y</u>	
<u>61.356(f)</u>	<u>Recordkeeping requirements; closed vent system and control device records</u>	<u>Y</u>	
<u>61.356(f)(1)</u>	<u>Recordkeeping requirements; closed vent system and control device records; signed certification of design</u>	<u>Y</u>	
<u>61.356(f)(3)</u>	<u>Recordkeeping requirements; closed vent system and control device records; performance test records</u>	<u>Y</u>	
<u>61.356(h)</u>	<u>Recordkeeping requirements; no detectable emissions tests</u>	<u>Y</u>	
<u>61.356(i)</u>	<u>Recordkeeping requirements; treatment process operating records</u>	<u>Y</u>	
<u>61.356(j)</u>	<u>Recordkeeping requirements; closed vent system and control device operating records</u>	<u>Y</u>	
<u>61.356(j)(3)</u>	<u>Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed</u>	<u>Y</u>	
<u>61.356(j)(3)(i)</u>	<u>Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if car-seal OPTION is used</u>	<u>Y</u>	
<u>61.356(j)(3)(ii)</u>	<u>Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if flow indicator OPTION is used</u>	<u>Y</u>	
<u>61.356(j)(6)</u>	<u>Recordkeeping requirements; control device operating records – boiler or process heater – changes and periods when not operating as designed</u>	<u>Y</u>	
<u>61.357</u>	<u>Reporting requirements</u>	<u>Y</u>	
<u>61.357(d)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg</u>	<u>Y</u>	
<u>61.357(d)(6)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections</u>	<u>Y</u>	
<u>61.357(d)(7)</u>	<u>Reporting requirements; facilities with TAB > 10 Mg; quarterly report</u>	<u>Y</u>	

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S606-50 UNIT WASTEWATER AIR STRIPPER A
S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357(d)(7)(i)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report; treatment process outlet benzene > 10 ppmw	Y	
61.357(d)(7)(iv)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c)	Y	
61.357(d)(7)(iv) (G)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c); change in point of entry of vent stream	Y	
61.357(d)(8)	Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections	Y	
40 CFR 63 Subpart CC	NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 1 wastewater streams		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater sources associated with petroleum refining process units	Y	
63.641	Definitions	Y	
63.647(a)	Wastewater provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater provisions; Definitions	Y	
63.647(c)	Wastewater provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	
63.654(i)(4)	Reporting and recordkeeping requirements; Retention	Y	
BAAQMD Condition # 7410			
Part 1	Requirement for Abatement (basis: cumulative increase, toxics)	Y	
Part 2	Stripped Gas Throughput Limit (basis: toxics)	Y	
Part 3	S950 Non-methane Hydrocarbon Emission Limit and Averaging Time (basis: cumulative increase)	Y	
Part 4	S950 Hydrogen Sulfide Emission Limit and Averaging Time (basis: toxics)	N	
Part 5	S950 Minimum Temperature for S-950 -During Abatement (basis: cumulative increase)	Y	
Part 6	S950 Temperature Monitoring and Recording (basis: cumulative increase)	Y	
Part 7	Record Keeping (basis: toxics, cumulative increase)	Y	

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Source-specific Applicable Requirements
S606-50 UNIT WASTEWATER AIR STRIPPER A
S607-50 UNIT WASTEWATER AIR STRIPPER B
ABATED BY S950

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	

Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
S323 – Tank A-323, S699 – Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	N	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	N	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	N	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	N	

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
S323 – Tank A-323, S699 – Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3-day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valve	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
	Requirement for S699		
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems (09/15/2004)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.2	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	

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**Table IV – ~~CV Cluster 28G.6~~
 Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMDSIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water Separators) (08/29/1994) (6/15/94)		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
<u>8-8-305</u>	<u>Oil-Water Separator And/Or Air Flotation Unit Slop-Oil Vessels</u>	<u>Y</u>	
<u>8-8-305.2</u>	<u>Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight. Requirement for 70% collection and destruction efficiency, by weight</u>	<u>Y</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
<u>10-69</u>	<u>Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems</u>	<u>Y</u>	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)	<u>Y</u>	
40 CFR 60 Subpart QQQ	NSPS - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (10/17/2000)		
<u>60.690</u>	<u>Applicability and designation of affected facility</u>	<u>Y</u>	
<u>60.690(a)(1)</u>	<u>Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987</u>	<u>Y</u>	
<u>60.690(a)(4)</u>	<u>An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]</u>	<u>Y</u>	
<u>60.691</u>	<u>Definitions</u>	<u>Y</u>	
<u>60.692-1</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-1(a)</u>	<u>Standards: General; Comply except during periods of startup, shutdown, or malfunction</u>	<u>Y</u>	
<u>60.692-1(b)</u>	<u>Standards: General; Determination of compliance</u>	<u>Y</u>	
<u>60.692-1(c)</u>	<u>Standards: General; Alternative means of compliance</u>	<u>Y</u>	
<u>60.692-1(d)</u>	<u>Standards: General; Exemptions</u>	<u>Y</u>	
<u>60.692-3</u>	<u>Standards: Oil-water separators [Slop oil facilities, including tanks, are included in this term]</u>	<u>Y</u>	
<u>60.692-3(a)</u>	<u>Standards: Oil-water separators; Fixed roof required on OWS and slop oil tank</u>	<u>Y</u>	

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-3(a)(1)	Standards: Oil-water separators; Fixed roof requirements	Y	
60.692-3(a)(2)	Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device	Y	
60.692-3(a)(3)	Standards: Oil-water separators; Fixed roof requirements; Openings	Y	
60.692-3(a)(4)	Standards: Oil-water separators; Fixed roof requirements; Visual inspections - semiannual	Y	
60.692-3(a)(5)	Standards: Oil-water separators; Fixed roof requirements; Repairs and delay of repairs	Y	
60.692-3(b)	Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.	Y	
60.692-3(d)	Standards: Oil-water separators; exemption for storage vessels, including slop oil tanks subject to 40 CFR 60 Subparts K, Ka, or Kb	Y	
60.692-3(e)	Standards: Oil-water separators; Slop oil collection and handling requirements; fixed roof required	Y	
60.692-3(f)	Standards: Oil-water separators; Slop oil collection and handling requirements; pressure control valve allowed	Y	
60.692-4	Standards: Aggregate facility	Y	
60.692-5	Standards: Closed vent systems and control devices	Y	
60.692-5(a)	Standards: Closed vent systems and control devices; Enclosed combustion devices shall be designed and operated to reduce the VOC emissions vented to them with an efficiency of 95 percent or greater or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C (1,500 °F).	Y	
60.692-5(b)	Standards: Closed vent systems and control devices; vapor recovery systems must provide 95% recovery of VOCs	Y	
60.692-5(c)	Standards: Closed vent systems and control devices; Flares used to comply with this subpart shall comply with the requirements of 40 CFR 60.18.	Y	
60.692-5(d)	Standards: Closed vent systems and control devices; operate at all times	Y	
60.692-5(e)(1)	Standards: Closed vent systems and control devices; no detectable emissions	Y	
60.692-5(e)(2)	Standards: Closed vent systems and control devices; purge closed vent system to control device	Y	
60.692-5(e)(3)	Standards: Closed vent systems and control devices; flow indicator required on vent stream to control device	Y	
60.692-5(e)(4)	Standards: Closed vent systems and control devices; sampling and gauging devices gas tight	Y	
60.692-5(e)(5)	Standards: Closed vent systems and control devices; detectable emissions	Y	

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	first efforts at repair		
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.695	Monitoring of Operations	Y	
60.695(a)(4)	Monitoring of Operations ; Where a flare is used for VOC emission reduction, the owner or operator shall comply with the monitoring requirements of 40 CFR 60.18(f)(2).	Y	
60.695(b)	Monitoring of Operations; information required for VOC recovery device other than carbon adsorber	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.696(a)	Performance test methods and procedures and compliance provisions; initial inspection	Y	
60.696(b)	Performance test methods and procedures and compliance provisions; measure no detectable emissions with Method 21 and exemption from 60.8	Y	
60.696(c)	Performance test methods and procedures and compliance provisions; The owner or operator shall conduct a performance test initially, and at other times as requested by the Administrator, using the test methods and procedures in §60.18(f) to determine compliance of flares.	Y	
60.697	Recordkeeping requirements	Y	
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(c)	Recordkeeping requirements; oil water separator inspection records	Y	
60.697(d)	Recordkeeping requirements; closed vent system inspection records	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(f)(3)	Recordkeeping requirements; closed vent system records	Y	
60.697(f)(3)(i)	Recordkeeping requirements; closed vent system records; control efficiency demonstration	Y	
60.697(f)(3)(iii)	Recordkeeping requirements; closed vent system records; periods when not operated as designed	Y	

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
S323 – Tank A-323, S699 – Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.697(f)(3)(iv)	Recordkeeping requirements: closed vent system records; startup and shutdown	Y	
60.697(f)(3)(v)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3)(vi)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3)(vii)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(h)	Recordkeeping Requirements for exemptions	Y	
60.697(i)	Recordkeeping Requirements for exemptions	Y	
60.697(j)	Recordkeeping Requirements for exemptions	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
40 CFR 61 Subpart FF	<u>NESHAPS - Benzene Waste Operations (12/04/2003)</u> <u>Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]</u>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
40 CFR 63 Subpart CC	<u>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</u> <u>Requirements for Group 2 wastewater streams</u>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.640(o)(1)	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	Y	
63.641	Definitions	Y	
Refinery MACT	<u>NESHAP for Petroleum Refineries</u> <u>REQUIREMENTS FOR FIXED ROOF TANK CONTROL DEVICE</u>	Y	

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**Table IV – ~~CV Cluster 28G.6~~
 Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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
63.646(a)	The source only needs to comply with the provisions as they relate to an existing fixed roof tank vented via a closed vent system to a control device.		Y
	Control device Performance requirements:	63.646(a) & (d) 63.119(e) at least 95% efficient (or 90% if older than 7/15/94), or a flare per 63.11(b)	Y
	Control device (other than flare) Compliance demonstration:	63.646(a) 63.120(d) design evaluation or performance test, plus monitoring plan {30-day notice required prior to performance tests, per 63.642(d)(2)}	Y
	Control device (other than flare) Operating requirements:	63.646(a) 63.120(d) operate such that the monitored parameters remain within the specified ranges	Y
	Closed vent system Performance requirements:	63.646(a) 63.120(d)(6) & 63.148 no detectable emissions (i.e., <500 ppm)	Y
63.646(g)	Failure to perform inspections and required monitoring is a violation of the applicable standard.		Y
63.654(g), (h) and (i)	The source only needs to comply with provisions as they relate to existing fixed roof tank vented via a closed vent system to a control device.		Y

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
S323 – Tank A-323, S699 – Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63.654(g) begin Sept 13, 1999 then semiannual	Y
	Periodic Reports: Miscellaneous additional info to report:	63.654(g)(5)(i) & (ii) for tanks routed to a control device other than a flare, semiannual reports of planned routine maintenance and all periods of monitored parameter excursions*	Y
	Periodic Reports: Tanks routed to a flare:	63.654(g)(5)(i) & (iii) semiannual reports of planned routine maintenance and all periods in which the flare was not in compliance*	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) w/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
	Recordkeeping for inspections: Keep inspection reports as specified.	63.654(i)(1) 63.123(e) – (e) all inspections	Y
	Recordkeeping for tanks routed to a control device other than a flare:	63.654(i)(1) 63.123(f) records of parametric monitoring data and planned routine maintenance*	Y
	Recordkeeping for tanks routed to a flare:	63.654(i)(1) 63.123(f) records of planned routine	Y

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	maintenance *		
	Recordkeeping 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
BAAQMD Condition # 3996	Permit Conditions for S699		
Part 1	Design specifications (basis: cumulative increase)	Y	
Part 2	Requirements for Pressure/Vacuum Relief Valve, Including Settings (basis: cumulative increase)	Y	
Part 3	Pressure regulator settings (basis: cumulative increase)	Y	
Part 4	Vacuum regulator set pressures (basis: cumulative increase)	Y	
BAAQMD Condition # 13605	Permit Conditions for S323		
Part 1	Throughput limitations (basis: cumulative increase)	Y	
Part 2	Storage of materials other than methanol or gasoline or alkylate gasoline blending components (basis: cumulative increase, toxics)	Y	
Part 3	Requirement for continuous abatement and leak limitation (basis: cumulative increase, NSPS)	Y	
Part 4	Source Test for S-323 abatement A-14 (99.5% efficiency)	Y	
Part 5	Record keeping (basis: cumulative increase, toxics)	Y	
BAAQMD Condition # 21053			
Part 3	Source Test for S-323 abatement A-14 (99.5% efficiency)	N	04/01/04
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403)	Y	

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Table IV – ~~CV Cluster 28G.6~~
Source-specific Applicable Requirements
~~S323 – Tank A-323, S699 – Tank A-699~~
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Regulation 2-6-503)		
BAAQMD Condition # <u>2105319528</u>			
Part 6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y	

Table IV - ~~BF Cluster 01b-1G.7~~
Source-specific Applicable Requirements
S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Organic Compounds – OIL-WATER Separators <u>wastewater Collection and Separation Systems (09/15/2004)</u> (6/15/94)		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
<u>8-8-303</u>	<u>Gauging and Sampling Devices</u>	<u>Y</u>	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
<u>8-8-305.1</u>	<u>Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use</u>	<u>N</u>	
<u>8-8-305.2</u>	<u>An organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.</u>	<u>Y</u>	
<u>8-8-503</u>	<u>Inspection and Repair Records</u>	<u>Y</u>	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>N</u>	
SIP Regulation 8 Rule 8	<u>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	

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Table IV - BF Cluster 01b-1G.7
Source-specific Applicable Requirements
S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>8-8-305.1</u>	<u>Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
<u>40 CFR 61 Subpart FF</u>	<u>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]</u>		
<u>61.340(a)</u>	<u>Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
<u>61.342(e)</u>	<u>Standards: General; Requirements for Treat to 6 (6BQ) facility</u>	<u>Y</u>	
<u>61.342(e)(2)</u>	<u>Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;</u>	<u>Y</u>	
<u>61.342(e)(2)(i)</u>	<u>Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).</u>	<u>Y</u>	
<u>61.342(e)(2)(ii)</u>	<u>Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).</u>	<u>Y</u>	
<u>40 CFR 63 Subpart CC</u>	<u>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</u>		
<u>63.640(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.640(c)(3)</u>	<u>Applicability – wastewater source</u>	<u>Y</u>	
<u>63.641</u>	<u>Definitions</u>	<u>Y</u>	
<u>NSPS Part 60 Subpart QQQ</u>	<u>Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (7/18/95);</u>		
<u>60.690(a)(1)</u>	<u>Applicability</u>	<u>Y</u>	
<u>60.691</u>	<u>Definitions</u>	<u>Y</u>	
<u>60.692-1(a)</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-1(b)</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-3</u>	<u>Standards: Oil-water Separators</u>	<u>Y</u>	
<u>60.692-3(a)</u>	<u>Each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped and operated with a fixed roof.</u>	<u>Y</u>	
<u>60.692-3(a)(1)</u>	<u>The fixed roof shall completely cover the separator tank, slop oil tank, storage vessel, or other auxiliary equipment with no separation between the roof and wall.</u>	<u>Y</u>	
<u>60.692-3(a)(2)</u>	<u>The vapor space under a fixed roof shall not be purged unless the vapor is directed to a control device.</u>	<u>Y</u>	

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Table IV - BF Cluster 01b-1G.7
Source-specific Applicable Requirements
S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-3(a)(3)	Openings shall be gasketed, latched, and closed at all times during operation except during inspection and maintenance.	Y	
60.692-3(a)(4)	Roof seals, access doors, and other openings shall be checked by visual inspection initially and semiannually thereafter to ensure no cracks or gaps.	Y	
60.692-3(a)(5)	Repairs shall be made as soon as practicable, but not later than 15 calendar days after identified, except as provided in 60.692-6.	Y	
60.692-3(d)	Storage vessels, including slop oil tanks subject to 60.112, 60.112a, and 60.112b and associated requirements, 40 CFR part 60 subparts K, Ka, or Kb are not subject to the requirements of this section.	Y	
60.692-3(e)	Slop oil from an oil-water separator tank and oily wastewater from slop oil handling equipment shall be collected, stored, transported, recycled, reused, or disposed of in an enclosed system. Equipment shall be equipped with a fixed roof meeting 60.692-3(a).	Y	
60.692-3(f)	Each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment that complies with 60.692-3(a) and not 60.692-3(b) may be equipped with a pressure control valve as necessary for proper system operation.	Y	
60.692-6	Delay of Repair Standards	Y	
60.692-6(a)	Delay of Repair Standards	Y	
60.692-6(b)	Delay of Repair Standards	Y	
60.697	Recordkeeping	Y	
60.697(a)	Recordkeeping: general	Y	
60.697(e)	Recordkeeping for 60.692-3	Y	
60.697(e)(1)	Recordkeeping: repairs and corrections	Y	
60.697(e)(2)	Recordkeeping: reason for delay	Y	
60.697(e)(3)	Recordkeeping: signature of decision maker	Y	
60.697(e)(4)	Recordkeeping: date of successful repair or corrective action	Y	
60.697(f)(1)	Recordkeeping: design specifications retained for life of source and accessible	Y	
60.697(f)(2)	Recordkeeping: Information to be kept.	Y	
60.698(e)	Reporting	Y	
BAAQMD Condition 21053			
Part 6	Source Test (basis: Reg 8-8-305.2)	Y	

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Table IV – OG.8
Source-specific Applicable Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems (09/14/2004)</u>		
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>N</u>	
<u>8-8-114</u>	<u>Exemption, bypassed oil-water separator or air flotation influent</u>	<u>N</u>	
<u>8-8-302</u>	<u>Wastewater separators (OWS) rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:</u>	<u>Y</u>	
<u>8-8-302.3</u>	<u>(OWS) a vapor-tight fixed cover with an organic compound vapor recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling or</u>	<u>N</u>	
<u>8-8-302.6</u>	<u>Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)</u>	<u>N</u>	
<u>8-8-303</u>	<u>Gauging and Sampling Devices</u>	<u>Y</u>	
<u>8-8-307</u>	<u>Air Flotation Unit (DNF): any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:</u>	<u>Y</u>	
<u>8-8-307.2</u>	<u>(DNF) with an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.</u>	<u>N</u>	
<u>8-8-501</u>	<u>API Separator or Air Flotation Bypassed Wastewater Records</u>	<u>N</u>	
<u>8-8-503</u>	<u>Inspection and Repair Records</u>	<u>Y</u>	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-8-601</u>	<u>Wastewater Analysis for Critical Organic Compounds</u>	<u>N</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>N</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>N</u>	
<u>BAAQMDSIP Regulation 8, Rule 8</u>	<u>Wastewater (Oil-Water) Separators (09/15/1994/08/29/1994)</u>	<u>Y</u>	
<u>8-8-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
<u>8-8-114</u>	<u>Exemption, bypassed oil-water separator or air flotation influent</u>	<u>Y</u>	
<u>8-8-302</u>	<u>Wastewater separators rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:</u>	<u>Y</u>	
<u>8-8-302.3</u>	<u>(OWS) a vapor-tight fixed cover with an organic compound vapor</u>	<u>Y</u>	

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Table IV – OG.8
Source-specific Applicable Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling.		
<u>8-8-303</u>	<u>Gauging and Sampling Devices</u>	<u>Y</u>	
<u>8-8-307.2</u>	<u>(DNF) an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.</u>	<u>Y</u>	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-503	Inspection and Repair Records	Y	
<u>8-8-601</u>	<u>Wastewater Analysis for Critical Organic Compounds</u>	<u>Y</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-69</u>	<u>Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems</u>	<u>Y</u>	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
<u>NSPS 40 CFR 60 Subpart QQQ</u>	<u>NSPS - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (10/17/2000)</u> <u>Applies to Oil-Water Separator only</u>	<u>Y</u>	
<u>60.690</u>	<u>Applicability and designation of affected facility</u>	<u>Y</u>	
<u>60.690(a)(1)</u>	<u>Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987</u>	<u>Y</u>	
<u>60.690(a)(4)</u>	<u>An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]</u>	<u>Y</u>	
<u>60.691</u>	<u>Definitions</u>	<u>Y</u>	
<u>60.692-1</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-1(a)</u>	<u>Standards: General; Comply except during periods of startup, shutdown, or malfunction</u>	<u>Y</u>	
<u>60.692-1(b)</u>	<u>Standards: General; Determination of compliance</u>	<u>Y</u>	
<u>60.692-1(c)</u>	<u>Standards: General; Alternative means of compliance</u>	<u>Y</u>	
<u>60.692-1(d)</u>	<u>Standards: General; Exemptions</u>	<u>Y</u>	
<u>60.692-3</u>	<u>Standards: Oil-water separators.</u>	Y	

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Source-specific Applicable Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.692-3(a)</u>	<u>Standards: Oil-water separators; Fixed roof required</u>	<u>Y</u>	
<u>60.692-3(a)(1)</u>	<u>Standards: Oil-water separators; Fixed roof requirements</u>	<u>Y</u>	
<u>60.692-3(a)(2)</u>	<u>Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device</u>	<u>Y</u>	
<u>60.692-3(a)(3)</u>	<u>Standards: Oil-water separators; Fixed roof requirements; Openings</u>	<u>Y</u>	
<u>60.692-3(a)(4)</u>	<u>Standards: Oil-water separators; Fixed roof requirements; Visual inspections - semiannual</u>	<u>Y</u>	
<u>60.692-3(a)(5)</u>	<u>Standards: Oil-water separators; Fixed roof requirements; Repairs and delay of repairs</u>	<u>Y</u>	
<u>60.692-3(b)</u>	<u>Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.</u>	<u>Y</u>	
<u>60.692-3(e)</u>	<u>Standards: Oil-water separators; Slop oil collection and handling requirements</u>	<u>Y</u>	
<u>60.692-3(f)</u>	<u>Standards: Oil-water separators; pressure control valve allowed</u>	<u>Y</u>	
<u>60.692-4</u>	<u>Standards: Aggregate facility</u>	<u>Y</u>	
<u>60.692-5</u>	<u>Standards: Closed vent systems and control devices</u> <u>[60.692.5 applies when S819 is abated by A39 Thermal Oxidizer.]</u>	<u>Y</u>	
<u>60.692-5(a)</u>	<u>Standards: Closed vent systems and control devices; enclosed combustion devices must provide 95% abatement of VOCs or meet residence time and minimum operating temperature (0.75 seconds at 1500 F) (applies to A39 thermal oxidizer)</u>	<u>Y</u>	
<u>60.692-5(b)</u>	<u>Standards: Closed vent systems and control devices; vapor recovery systems must provide 95% recovery of VOCs (applies to A14 vapor recovery system)</u>	<u>Y</u>	
<u>60.692-5(c)</u>	<u>Standards: Closed vent systems and control devices; Flares used to comply with this subpart shall comply with the requirements of 40 CFR 60.18.</u>	<u>Y</u>	
<u>60.692-5(d)</u>	<u>Standards: Closed vent systems and control devices; operate at all times</u>	<u>Y</u>	
<u>60.692-5(e)(1)</u>	<u>Standards: Closed vent systems and control devices; no detectable emissions</u>	<u>Y</u>	
<u>60.692-5(e)(2)</u>	<u>Standards: Closed vent systems and control devices; purge closed vent system to control device</u>	<u>Y</u>	
<u>60.692-5(e)(3)</u>	<u>Standards: Closed vent systems and control devices; flow indicator required on vent stream to control device</u>	<u>Y</u>	
<u>60.692-5(e)(4)</u>	<u>Standards: Closed vent systems and control devices; sampling and gauging devices gas tight</u>	<u>Y</u>	

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S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.692-5(e)(5)</u>	<u>Standards: Closed vent systems and control devices; detectable emissions – first efforts at repair</u>	<u>Y</u>	
<u>60.692-6</u>	<u>Standards: Delay of Repair</u>	<u>Y</u>	
<u>60.692-6(a)</u>	<u>Standards: Delay of repair; Allowances for delay or repair</u>	<u>Y</u>	
<u>60.692-6(b)</u>	<u>Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown</u>	<u>Y</u>	
<u>60.695</u>	<u>Monitoring of Operations</u>	<u>Y</u>	
<u>60.695(a)</u>	<u>Monitoring of Operations; control device monitoring requirements</u>	<u>Y</u>	
<u>60.695(a)(1)</u>	<u>Monitoring of Operations; control device monitoring requirements – thermal oxidizer temperature monitoring device [applies to A39]</u>	<u>Y</u>	
<u>60.695(a)(4)</u>	<u>Monitoring of Operations ; Where a flare is used for VOC emission reduction, the owner or operator shall comply with the monitoring requirements of 40 CFR 60.18(f)(2).</u>	<u>N</u>	
<u>60.695(b)</u>	<u>Monitoring of Operations; information required for VOC recovery device other than carbon adsorber [applies to A14 vapor recovery system]</u>	<u>Y</u>	
<u>60.696(e)</u>	<u>Performance test methods and procedures and compliance provisions; The owner or operator shall conduct a performance test initially, and at other times as requested by the Administrator, using the test methods and procedures in §60.18(f) to determine compliance of flares.</u>	<u>N</u>	
<u>60.696</u>	<u>Performance test methods and procedures and compliance provisions</u>	<u>Y</u>	
<u>60.696(a)</u>	<u>Performance test methods and procedures and compliance provisions; initial inspection</u>	<u>Y</u>	
<u>60.696(b)</u>	<u>Performance test methods and procedures and compliance provisions; measure no detectable emissions with Method 21 and exemption from 60.8</u>	<u>Y</u>	
<u>60.697</u>	<u>Recordkeeping requirements</u>	<u>Y</u>	
<u>60.697(a)</u>	<u>Recordkeeping requirements; retention</u>	<u>Y</u>	
<u>60.697(c)</u>	<u>Recordkeeping requirements; oil water separator inspection records</u>	<u>Y</u>	
<u>60.697(d)</u>	<u>Recordkeeping requirements; closed vent system inspection records</u>	<u>Y</u>	
<u>60.697(e)(1)</u>	<u>Recordkeeping requirements; delay of repair - expected date of repair</u>	<u>Y</u>	
<u>60.697(e)(2)</u>	<u>Recordkeeping requirements; delay of repair – reason for delay</u>	<u>Y</u>	
<u>60.697(e)(3)</u>	<u>Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]</u>	<u>Y</u>	
<u>60.697(e)(4)</u>	<u>Recordkeeping requirements; delay of repair - actual date of repair</u>	<u>Y</u>	
<u>60.697(f)(1)</u>	<u>Recordkeeping requirements; design specifications – retain for life of equipment</u>	<u>Y</u>	
<u>60.697(f)(2)</u>	<u>Recordkeeping requirements; design specifications – information required</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.697(f)(3)</u>	<u>Recordkeeping requirements: closed vent system records</u>	<u>Y</u>	
<u>60.697(f)(3)(i)</u>	<u>Recordkeeping requirements: closed vent system records; control efficiency demonstration</u>	<u>Y</u>	
<u>60.697(f)(3)(iii)</u>	<u>Recordkeeping requirements: closed vent system records; periods when not operated as designed</u>	<u>Y</u>	
<u>60.697(f)(3)(iv)</u>	<u>Recordkeeping requirements: closed vent system records; startup and shutdown of control device</u>	<u>Y</u>	
<u>60.697(f)(3)(v)</u>	<u>Recordkeeping requirements: no detectable emissions records</u>	<u>Y</u>	
<u>60.697(f)(3)(vi)</u>	<u>Recordkeeping requirements: no detectable emissions records</u>	<u>Y</u>	
<u>60.697(f)(3)(vii)</u>	<u>Recordkeeping requirements: no detectable emissions records</u>	<u>Y</u>	
<u>60.697(f)(3)(viii)</u>	<u>Recordkeeping requirements: control device; thermal oxidizer</u>	<u>Y</u>	
<u>60.697(h)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.697(i)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.697(j)</u>	<u>Recordkeeping Requirements for exemptions</u>	<u>Y</u>	
<u>60.698</u>	<u>Reporting requirements</u>	<u>Y</u>	
<u>60.698(b)(1)</u>	<u>Reporting requirements; semiannual certification of required inspections</u>	<u>Y</u>	
<u>60.698(d)</u>	<u>Reporting requirements; semiannual report</u>	<u>Y</u>	
<u>60.698(d)(1)</u>	<u>Reporting requirements; semiannual report; thermal oxidizer combustion zone temperature more than 50 F below design [applies to A39]</u>	<u>Y</u>	
<u>60.693-2</u>	<u>Alternative standards for oil water separators.</u>	<u>N</u>	
<u>60.694</u>	<u>Permission to use alternative means of emission limitation.</u>	<u>N</u>	
<u>40 CFR 61</u> <u>Subpart FF</u>	<u>NESHAPS - Benzene Waste Operations (12/04/2003)</u> <u>Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]</u>		
<u>61.340(a)</u>	<u>Applicability: petroleum refineries</u>	<u>Y</u>	
<u>61.341</u>	<u>Definitions</u>	<u>Y</u>	
<u>61.342(e)</u>	<u>Standards: General; Compliance option - Treat to 6 or 6BQ Option</u>	<u>Y</u>	
<u>61.342(e)(2)</u>	<u>Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;</u>	<u>Y</u>	
<u>61.342(e)(2)(i)</u>	<u>Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).</u>	<u>Y</u>	
<u>61.342(e)(2)(ii)</u>	<u>Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).</u>	<u>Y</u>	
<u>40 CFR 63</u> <u>Subpart CC</u>	<u>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</u> <u>Requirements for Group 2 wastewater streams</u>		
<u>63.640(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.640(c)(3)</u>	<u>Applicability – wastewater streams associated with petroleum refining process units</u>	<u>Y</u>	

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Source-specific Applicable Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>63.640(o)(1)</u>	<u>Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.</u>	<u>Y</u>	
<u>63.641</u>	<u>Definitions</u>	<u>Y</u>	
BAAQMD Condition # 7406			
Part A1	<u>S-819 Enclosure requirement and abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part A2	<u>S-819 Back up abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part A3	<u>Access hatch closure requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part A4	<u>Requirement for covers to comply with Reg. 8, Rule 8. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part B1	<u>Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part B2	<u>Requirement for S-1026 air stripper compressor interlock with air sweep fans and and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
Part B3	<u>Requirement for pressure to be less than atmospheric in air space below DNF covers (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
<u>Part B5A</u>	<u>A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (basis: BACT, offsets, cumulative increase)</u>	<u>Y</u>	
<u>Part B7</u>	<u>A-39 H2S < 1 ppm (basis: toxics)</u>	<u>Y</u>	
<u>Part B10</u>	<u>A-39 minimum temperature (basis: cumulative increase, offsets, toxics)</u>	<u>Y</u>	
<u>Part B11</u>	<u>A-39 Continuous temperature monitor/recorder (basis: BACT, offsets, cumulative increase)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Recordkeeping (basis: BACT, offsets, cumulative increase, toxics)</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>Y</u>	

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Table IV – QG.9
Source-specific Applicable Requirements
S830–WASTEWATER SURGE PONDS
S831–BIO-OXIDATION POND,
S842–WASTEWATER TREATMENT PLANT
S1101, S1102, S1103, S1104–SUBSURFACE AERATOR SYSTEMS
S830 – WASTEWATER SURGE PONDS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems (9/14/2004)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	N	
<u>SIP Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	Y	
<u>BAAQMD Condition 7688</u>	<u>Applies to S1101, S1102, S1103, S1104 Only</u>		
<u>Part 1</u>	<u>Requirement for subject sources to be operated consistent with specification set forth during permitting (basis: cumulative increase)</u>	Y	
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (5/17/00)</u>	Y	
1-301	Public Nuisance Prohibition	N	
<u>BAAQMD Regulation 8, Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (6/15/94)</u>	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
<u>BAAQMD Condition # 19528</u>			
<u>Part 1</u>	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	Y	

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Table IV – ANG.10
Source-specific Applicable Requirements
S1026-DNF EFFLUENT AIR STRIPPER
ABATED BY A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater Collection and Separation Svstems (9/14/2004)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	<u>N</u>	
<u>SIP Regulation 8 Rule 8</u>	<u>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</u>		
8-8-113	<u>Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems</u>	<u>Y</u>	
<u>BAAQMD Regulation 8, Rule 8</u>	<u>Wastewater (Oil-Water) Separator</u>	<u>Y</u>	
8-8-307	<u>Air Flotation Unit: any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:</u>	<u>Y</u>	
8-8-307.2	<u>an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.</u>	<u>Y</u>	
<u>BAAQMD Condition # 4587</u>			
Part 1	<u>Requirement for DAF Cover (basis: cumulative increase)</u>	<u>Y</u>	
Part 2	<u>Fan Operation and Abatement (basis: cumulative increase)</u>	<u>Y</u>	
Part 3	<u>Differential Pressure Controller Operation (basis: cumulative increase)</u>	<u>Y</u>	
Part 4	<u>Parallel Arrangement of Carbon Canisters (basis: toxics)</u>	<u>Y</u>	
Part 5A	<u>A-39 Non-methane Hydrocarbon Emission Limitation</u>	<u>Y</u>	
Part 5B	<u>A-38 Non-methane Hydrocarbon Emission Limitation</u>	<u>Y</u>	
Part 6	<u>Requirement for Continuous Hydrocarbon Monitor and Recorder</u>	<u>Y</u>	
Part 7	<u>Limitation on Hydrogen Sulfide Emissions to Atmosphere (basis: toxics)</u>	<u>Y</u>	
Part 8	<u>Schedule for Hydrocarbon and Hydrogen Sulfide Breakthrough</u>	<u>Y</u>	
Part 9	<u>Minimum Operating Temperature Requirements for A-39 (basis: cumulative increase, offsets)</u>	<u>Y</u>	
Part 10	<u>Requirement for a Continuous Temperature Monitor Recorder (basis: cumulative increase, offsets)</u>	<u>Y</u>	
Part 11	<u>Record Keeping (basis: cumulative increase, offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition 7406</u>			
<u>Part A1</u>	<u>S-819 Enclosure requirement and abatement requirement (vent to S-1026) (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	

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Table IV – ANG.10
Source-specific Applicable Requirements
S1026-DNF EFFLUENT AIR STRIPPER
ABATED BY A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part B1</u>	<u>Requirement to cover and abate DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
<u>Part B2</u>	<u>Requirement for S-1026 air stripper compressor interlock with air sweep fans and and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
<u>Part B3</u>	<u>Requirement for pressure to be less than atmospheric in air space below DNF covers (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)</u>	<u>Y</u>	
<u>Part B5A</u>	<u>A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (basis: BACT, offsets, cumulative increase)</u>	<u>Y</u>	
<u>Part B7</u>	<u>A-39 H2S < 1 ppm (basis: toxics)</u>	<u>Y</u>	
<u>Part B10</u>	<u>A-39 minimum temperature to abate S-1026 (basis: cumulative increase, offsets, toxics)</u>	<u>Y</u>	
<u>Part B11</u>	<u>A-39 Continuous temperature monitor/recorder (basis: BACT, offsets, cumulative increase)</u>	<u>Y</u>	
<u>Part B12</u>	<u>Recordkeeping (basis: BACT, offsets, cumulative increase, toxics)</u>	<u>Y</u>	
BAAQMD Condition # 19528			
<u>Part 1</u>	<u>Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)</u>	<u>N</u>	

SECTION H - SULFUR AND AMMONIA PROCESSING

Table IV – FH.1
Source-specific Applicable Requirements
S851–AMMONIA RECOVERY UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 2</u>	<u>Organic Compounds - Miscellaneous Operations (07/20/2005)</u>		
<u>8-2-101</u>	<u>Description, Applicability</u>	<u>Y</u>	

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Table IV – ~~FH.1~~
Source-specific Applicable Requirements
S851–AMMONIA RECOVERY UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>8-2-301</u>	<u>Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis</u>	<u>Y</u>	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Regulation 8, Rule 18	See Tables IV-X and IV-J for fugitives requirements	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – ~~AQH.2~~
Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)	Y	
1-301	Public Nuisance Prohibition	N	
<u>1-510</u>	<u>Area Monitoring</u>	<u>Y</u>	
1-520	Continuous Emission Monitoring	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	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N / Y / N	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	

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Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO—Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-530	Area Monitoring Downtime (reporting requirement)	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses (reporting requirement)	Y	
1-543	Record maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (11/10/8206/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90(12/05/2007))		
6-1-301	Ringelmann Number 1 Limitation	NY	
6-1-305	Visible Particles	NY	
6-1-310	Particulate Weight Limitation	NY	
6-1-311	General Operations (process weight rate limitation)	NY	

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Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-330	Sulfur Recovery Units (SO ₃ , H ₂ SO ₄ emission limitations)	N Y	
6-1-401	Appearance of Emissions	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-330	Sulfur Recovery Units (SO ₃ , H ₂ SO ₄ emission limitations)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)		
9-1-101	<u>Description, applicability</u>	Y	
9-1-301	<u>Limitations on Ground-level Concentrations</u>	Y	
9-1-302.1	<u>General Emission limitation: Exemption: 9-1-302 limit not applicable to sources subject to any limitation in 9-1-304 through 9-1-312</u>	Y	
9-1-304.1	Fuel Burning (Liquid and Solid Fuels): <u>Exemption: 9-1-304 not applicable to sulfur manufacturing operations</u>	Y	
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y N	
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 H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	N	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	

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Table IV – AQH.2
Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-605	Emission Monitoring	<u>Y</u>	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/9206/08/1999)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	<u>Y</u>	
9-1-313.2	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	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N	
9-2-301	Limitations of Hydrogen Sulfide ground level concentrations	N	
9-2-501	Area Monitoring Requirements	N	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
<u>10-14</u>	<u>Subpart J – Standards of Performance for Petroleum Refineries (08/07/1991)</u>	<u>Y</u>	
BAAQMD Regulation 10 Subpart A	NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
BAAQMD Regulation 10 Subpart J	NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982)	YN	
NSPS 40 CFR 60 Subpart A	General Provisions (8/27/2001)	Y	
60.7	Notification and recordkeeping	Y	
60.8	Performance tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with standards and maintenance requirements	Y	

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S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Good Operating Practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
NSPS_40 CFR 60 Subpart J	<u>NSPS - Standards of Performance for Petroleum Refineries</u> (10/17/2000/06/24/2008) <u>Applicability defined by Condition 267</u>	Y	
60.104	Standards for sulfur oxides	Y	
60.104(a)(2)	Limit on sulfur oxide emissions from Claus SRU	Y	
60.104(a)(2)(i)	Limit – limit on sulfur oxide emissions from Claus sulfur recovery plant with oxidation or reduction control system followed by incineration	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(5)	Continuous SO2 concentration monitoring system requirements. Includes O2 CEMS.	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(4)	Excess emissions of sulfur dioxide from Claus sulfur recovery plants	Y	
60.105(e)(4)(i)	Excess – excess emissions of sulfur dioxide from Claus sulfur recovery plants as measured under 60.105(a)(5)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(f)	Compliance determination for SO2 standards for Claus SRU	Y	
60.106(f)(1)	Compliance determination for SO2 standards for Claus SRU ;– methods to determine SO2 concentration	Y	
60.106(f)(3)	Compliance determination for SO2 standards for Claus SRU ;– methods to determine O2 concentration	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Submit required reports semiannually for each six-month period, a report postmarked by the 30th day following the end of each six-month period.	Y	
60.107(g)	Submit signed statement certifying accuracy and completeness of information contained in the report.	Y	
NSPS Title 40 CFR Part 60 Appendix B	<u>NSPS – Title 40 Part 60 Appendix B – Performance Specifications</u> (01/12/2004)		12/31/2010 (S902)

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ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Performance Specification 2	Specifications and Test Procedures for SO ₂ and NO _x Continuous Emission Monitoring Systems in Stationary Sources	Y	
<u>Performance Specification 3</u>	<u>Specifications and Test Procedures for O₂ Continuous Emission Monitoring Systems in Stationary Sources</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 - Appendix F	NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/2004)		12/31/2010 (S902)
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
NESHAPS Title 40 Part CFR 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for NESHAPS for Source Categories: Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (04/2011/2006)		
<u>63.1560</u>	<u>Applicability and Designation of Affected Facilities</u>	<u>Y</u>	
<u>63.1561</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.1561(a)(1)</u>	<u>Applicable to petroleum refineries located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.1561(a)(2)</u>	<u>Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs</u>	<u>Y</u>	
<u>63.1562</u>	<u>What parts of my plant are covered by this subpart?</u>	<u>Y</u>	
<u>63.1562(a)</u>	<u>New, reconstructed, or existing affected source at a petroleum refinery</u>	<u>Y</u>	
<u>63.1562(b)(3)</u>	<u>Affected source: SRU</u>	<u>Y</u>	
<u>63.1562(b)(4)</u>	<u>Affected source: Bypass lines</u>	<u>Y</u>	
<u>63.1562(e)</u>	<u>Existing affected source</u>	<u>Y</u>	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation requirements for Sulfur Recovery Units subject to NSPS for sulfur oxides in 40 CFR 60.104. Meet the emission limitations for NSPS units. (Table 29, Item 1)	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with HAP emission limitation and work practice standards	Y	
63.1568(b)(1)	Install SO ₂ and O ₂ CEMS to measure and record hourly average concentration of SO ₂ , dry basis, at 0% O ₂ .(Table 31, Item 1.a).	Y	

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Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(b)(5)	Conduct performance test to demonstrate initial compliance (Table 33, Item 1.a). NOTE: No additional performance test required to demonstrate initial compliance with SO ₂ limit or with CEMS requirements for sources subject to NSPS. Certify in Notification of Compliance Status report that SRU stack meets emission limit and the CEMS meets the requirements in 63.1572.	Y	
63.1568(b)(6)	Submit Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1568(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with HAP emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: Collect hourly average SO ₂ monitoring data (dry basis, 0% O ₂), determine and record each 12-hour rolling average SO ₂ concentration, maintain the 12-hour rolling average below the 250 ppmvd, 0% O ₂ limit (Table 29, Item 1.a), and report any 12-hour rolling average that exceeds the limit in the compliance report required by 63.1575. (Table 34, Item 1.a)	Y	
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
<u>63.1569(a)</u>	<u>Work Practice Standards</u>	<u>Y</u>	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards for bypass lines	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line. (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1.a).	Y	
63.1569(b)(3)	Submit Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	

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Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Continuous Compliance Demonstration with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly. (Table 39, Option 1)	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(e)	Operate in accordance with SSMP during periods of startup, shutdown, and malfunction	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	

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Table IV – AQH.2
Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems.	Y	
63.1572(a)(1)	Install, operate, and maintain SO2 CEMS with O2 monitor on the SRU. Comply with applicable requirements in Table 40. (Table 40, Item 4 and Item 8)	Y	
63.1572(a)(2)	Performance test requirements for CEMS used to meet NSPS SO2 limit. (Table 40, Item 4 and Item 8).	Y	
63.1572(a)(3)	Minimum data requirements for CEMS per 63.8(c)(4)(ii).	Y	
63.1572(a)(4)	Data reduction requirements per 63.8(g)(2).	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Do not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by 40 CFR 63 Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Requirements for Notification of Compliance Status	Y	
63.1574(a)(3)(i)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: semiannual compliance report (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	

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Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
<u>63.1576(b)(1)</u>	<u>Records required by 63.10(b)(2)(vi) – (xi)</u>	<u>Y</u>	
<u>63.1576(b)(5)</u>	<u>Records of deviations</u>	<u>Y</u>	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU for sulfur recovery units <u>and Table 39 for bypass lines</u>	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
<u>63.1577</u>	<u>Parts of Subpart A General Provisions which apply to this Subpart</u>	<u>Y</u>	
BAAQMD Condition # 267			
Part 1	SCOT Unit maintenance (basis: cumulative increase)	Y	
Part 2	Sulfur dioxide emission limit (basis: cumulative increase)	Y	
Part 3	Record keeping (basis: cumulative increase)	Y	
Part 4	Abate sulfur pit vent emissions by S-1411, Sulfuric Acid Plan or S-1401, Sulfur Recovery Unit. (Basis: cumulative increase)	Y	

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ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	NSPS J applicability and SSM requirements for S-1401 (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 221, 222, 224, 225, and 227)	Y	
BAAQMD Condition # 4357			
Part 1	Definitions (basis: definitions)	Y	
Part 2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part 3	Emission Reductions (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 5	Reporting and Recordkeeping (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part 9	Sulfur Recovery Facilities (basis: cumulative increase, offsets)	Y	
Part 10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part 11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part 12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part 13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part 14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition 8077			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part B9	Sulfur Recovery Facilities (basis: cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
BAAQMD Condition #			

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Table IV – ~~AQH.2~~
Source-specific Applicable Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
Part 9	Annual SO ₃ and H ₂ SO ₄ Source Test Requirement (basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 9A	Source Test Results Reporting	Y	
BAAQMD Condition # 21053			
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) (basis: Regulation 6-1-301)	Y	

Table IV – ~~ARH.3~~
Source-specific Applicable Requirements
S1404-SULFUR STORAGE TANK
ABATED BY A1422 SCRUBBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90)(12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	

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Table IV – ARH.3
Source-specific Applicable Requirements
S1404-SULFUR STORAGE TANK
ABATED BY A1422 SCRUBBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-311	<u>General Operations (process weight rate limitation)</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground level Concentrations	Y	
BAAQMD Condition # 8535			
Part 1	Particulate matter grain loading limitation (basis: cumulative increase)	Y	
Part 2	Requirement for particulate scrubber (basis: cumulative increase, Regulation 6-1-301)	Y	
Part 3	Requirement for pressure drop monitor and minimum pressure drop requirement (basis: cumulative increase)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 21053			
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) <u>(basis: Regulation 6-1-301)</u>	Y	

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Table IV – ASH.4
Source-specific Applicable Requirements
S1405-SULFUR COLLECTION PIT
ABATED BY S1401 SRU OR S1411 SAP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90) (12/5/2007)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (9/4/1998)</u>		
6-301	Ringelmann Number 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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
SIP Regulation 9, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Inorganic Gases – Sulfur Dioxide (5/3/84)		
9-1-301	Limitations on Ground Level Concentrations	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

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Table IV – ASH.4
Source-specific Applicable Requirements
S1405-SULFUR COLLECTION PIT
ABATED BY S1401 SRU OR S1411 SAP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 267			
Part 4	S-1405 Abatement requirement (basis: cumulative increase)	Y	

Table IV – ATH.5
Source-specific Applicable Requirements
S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)(3/3/93)		
1-520	Continuous Emission Monitoring	Y	
1-520.3	SO2 from Sulfuric Acid Plants	Y	
<u>1-520.8</u>	<u>Monitors required by Regulations 10, 12 and 2-1-403</u>	<u>Y</u>	
1-522	Continuous Emission Monitoring and Recordkeeping Requirements	Y /N	
1-522.1	<u>approval of plans and specifications—Plans and Specifications</u>	Y	
1-522.2	<u>scheduling requirements—Installation Scheduling</u>	Y	
1-522.3	<u>CEM performance testing—Performance Testing</u>	Y	
1-522.4	<u>reporting of inoperative CEMs—Periods of Inoperation Greater Than 24 Hours</u>	Y	
1-522.5	<u>CEM calibration requirements—Calibration</u>	Y	
1-522.6	<u>CEM accuracy requirements—Accuracy</u>	Y	
1-522.7	<u>emission limit exceedance reporting requirements—Excesses</u>	N	
1-522.8	<u>monitoring data submittal requirements—Monthly Reports</u>	Y	
1-522.9	<u>recordkeeping requirements—Records</u>	Y	
<u>1-522.10</u>	<u>monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Report periods of parametric monitor inoperation</u>	<u>Y</u>	

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**Table IV – ATH.5
 Source-specific Applicable Requirements
 S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>1-523.2</u>	<u>Limits on periods of parametric monitor inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>N</u>	
<u>1-523.4</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration; written policy</u>	<u>N</u>	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (11/10/8206/28/1999)		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Requirements</u>	<u>Y</u>	
1-522.7	Excesses	Y	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Report exceedances</u>	<u>Y</u>	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90(12/05/2007))		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-320	Sulfuric Acid Manufacturing Plants	N	
6-1-401	Appearance of Emissions	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-311</u>	<u>General Operations</u>	<u>Y</u>	
<u>6-320</u>	<u>Sulfuric Acid Manufacturing Plants</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	

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**Table IV – ATH.5
 Source-specific Applicable Requirements
 S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	Inorganic Gases – Sulfur Dioxide (03/15/1995)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-309	Emission Limitations for Sulfuric Acid Plants	Y	
9-1-502	Emission Monitoring Requirements	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-604	Ground Level Monitoring	Y	
9-1-605	Emission Monitoring	Y	
SIP Regulation 9, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Inorganic Gases – Sulfur Dioxide (5/3/84)		
9-1-502	Emission Monitoring Requirements	Y	
BAAQMD Regulation 12, Rule 6	Acid Mist from Sulfuric Acid Plants (12/6/78)	N	
12-6-101	Applicability	N	
12-6-301	Acid Mist limit for sulfuric acid production unit	N	
12-6-501	Production Rate and Hours of Operation	N	
12-6-601	Testing Procedures	N	
40 CFR 60 Subpart Cd	<u>Emission Guidelines and Compliance Times for Sulfuric Acid Production Units (12/19/1995)</u>		
60.30d	Designated facilities – sulfuric acid production units	Y	
60.31d	Emissions guidelines – sulfuric acid production units	Y	
60.32d	Compliance times – sulfuric acid production units	Y	
40 CFR 64	<u>Compliance Assurance Monitoring (10/22/1997)</u>		
64.2(a)	General Applicability	Y	
64.2(a)(1)	General Applicability: Subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	General Applicability: Uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	General Applicability: Has pre-control device potential to emit > major source threshold	Y	

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Table IV – ~~ATH.5~~
Source-specific Applicable Requirements
S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	N	
<u>Part 20</u>	<u>Annual SAM Source Test (Basis Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)</u>	Y	
<u>Part 20A</u>	<u>Annual SAM Source Test Report (Basis Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)</u>	Y	
BAAQMD Condition # 21053			
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) (basis: Regulation 6-1-301)	Y	

Table IV – ~~AVH.6~~
Source-specific Applicable Requirements
S1413-#1 Oleum Storage Tank, S1414-#2 Oleum Storage Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90 (12/05/2007))		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	Y	
<u>6-305</u>	<u>Visible Particles</u>	Y	
<u>6-401</u>	<u>Appearance of Emissions</u>	Y	

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Table IV – AVH.6
Source-specific Applicable Requirements
S1413-#1 Oleum Storage Tank, S1414-#2 Oleum Storage Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 12, Rule 10	Oleum Transfer Operations (08/03/1994)		
<u>12-10-101</u>	<u>Applicability</u>	<u>N</u>	
12-10-301	Operating Requirements – Oleum Transfer Facility	N	
<u>12-10-301.1</u>	<u>Operating Requirements – Oleum Transfer Procedure</u>	<u>N</u>	
<u>12-10-301.2</u>	<u>Operating Requirements – Qualified Operator</u>	<u>N</u>	
<u>12-10-301.3</u>	<u>Operating Requirements – Oleum Transfer Checklist</u>	<u>N</u>	
12-10-302	Secondary Containment Requirements	N	
12-10-401	Oleum Transfer Procedure Requirements	N	
<u>12-10-401.1</u>	<u>Oleum Transfer Procedure Requirements – procedures required to limit transfer emissions of H2SO4 and SO3 to <= 2 ppm as H2SO4, 10 consecutive minute average</u>	<u>N</u>	
<u>12-10-401.2</u>	<u>Oleum Transfer Procedure Requirements – step by step procedure</u>	<u>N</u>	
<u>12-10-401.3</u>	<u>Oleum Transfer Procedure Requirements – prevention measures to comply with 2 ppm limit</u>	<u>N</u>	
<u>12-10-401.4</u>	<u>Oleum Transfer Procedure Requirements – Oleum Transfer Checklist</u>	<u>N</u>	
<u>12-10-401.5</u>	<u>Oleum Transfer Procedure Requirements – Management of Change Procedure</u>	<u>N</u>	
<u>12-10-401.6</u>	<u>Oleum Transfer Procedure Requirements – Qualified Operator training program</u>	<u>N</u>	
<u>12-10-401.7</u>	<u>Oleum Transfer Procedure Requirements – Owner/operator approval and signature</u>	<u>N</u>	
<u>12-10-401.8</u>	<u>Oleum Transfer Procedure Requirements – APCO approval</u>	<u>N</u>	
12-10-501	Records – Oleum Transfer Checklist retention	N	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

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Table IV-AWH.7
Source-specific Applicable Requirements
S1415-LOADING DOCK (SULFURIC ACID), ~~S1416-#1 SPENT ACID STORAGE TANK~~
ABATED BY A1404 (BRINKS MIST ELIMINATOR)
A1525 (SRU STACK INCINERATORS)
~~S1417-#2 SPENT ACID STORAGE TANK~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter, and Visible Emissions (12/19/90) General Requirements (12/5/2007)		
6-1-301	Ringelmann Number 1 Limitation	Y N	
6-1-305	Visible Particles	N Y	
6-1-401	Appearance of Emissions	N Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
District BAAQMD Regulation 8, Rule 2	Organic Compounds -, Miscellaneous Operations (07/20/2005)	Y	
<u>8-2-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Regulation 12 Rule 10	Oleum Transfer Operations (08/03/1995)	N	
<u>12-10-101</u>	<u>Description, Applicability</u>	<u>N</u>	
<u>12-10-301</u>	<u>Operating Requirements</u>	<u>N</u>	
<u>12-10-302</u>	<u>Secondary Containment Requirement</u>	<u>N</u>	
<u>12-10-401</u>	<u>Oleum Transfer Procedure Requirements</u>	<u>N</u>	
<u>12-10-501</u>	<u>Records</u>	<u>N</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

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Table IV-~~AW~~H.7
Source-specific Applicable Requirements
S1415-LOADING DOCK (SULFURIC ACID), ~~S1416-#1 SPENT ACID STORAGE TANK~~
~~ABATED BY A1404 (BRINKS MIST ELIMINATOR)~~
~~A1525 (SRU STACK INCINERATORS)~~
~~S1417-#2 SPENT ACID STORAGE TANK~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	5 Year Source Test Requirement for POC and carbon concentration (basis: Regulation 8-2, Regulation 2-1-403, Regulation 2-6-503).	Y	
Part 10A	Source Test Results Reporting Requirement (basis: Regulation 2-1-403, Regulation 8-2, Regulation 2-6-503).	Y	

Table IV-AUH.8
Source-specific Applicable Requirements
~~S1421-AMMONIA RECOVERY UNIT FEED TANK, TANK 757~~
~~S1422-AMMONIA RECOVERY UNIT FEED TANK, Ammonia Recovery Unit Feed Tank, TANK 782~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District BAAQ MD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)	Y	
8-2-101	----- Description, Applicability	----- Y	-----
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition # 13282	S1421 only		
Part 1	Limit on Throughput to S-1421 or Emission Limitation (basis: cumulative increase, offsets)	Y	
Part 2	Storage Of Materials Other Than Diesel Gasoline (basis: cumulative increase, toxics)	Y	
Part 4	Record Keeping (basis: cumulative increase, toxics, Regulation 8-5, offsets)	Y	

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Table IV—~~AUH.8~~
Source-specific Applicable Requirements
~~S1421—AMMONIA RECOVERY UNIT FEED TANK, TANK 757~~
S1422—AMMONIA RECOVERY UNIT FEED TANK, Ammonia Recovery Unit Feed Tank,
TANK 782

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

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SECTION J - MISCELLANEOUS ORGANIC SOURCES (INCLUDING FUGITIVE COMPONENTS)

Table IV- EZJ.0								
Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 <u>Note XX</u>	BAAQMD Reg.-8-28	NSPS-Part40 CFR 60, Subpart GGG; BAAQMD-Reg. 10-59 40 CFR 60, Subpart VV Note 4	NSPS-Part40 CFR 60, Subpart GGa; NSPS-Part40 CFR 60, Subpart VVa NSPS-Part-60, Subpart QQQ; BAAQMD-Reg. 10-69 Note 4	NESHAP Part-61, Subpart-J; 61, Subpart-V Note-5	NESHAP Part40 CFR 61, Subpart FF; BAAQMD Reg. 11-12	40 CFR 61, Subpart J; NESHAP Part-40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6	NESHAP Part-40 CFR 63, Subpart CC NSPS-Part40 CFR 60, Subpart VV Note 7
<u>Sitewide – Remediation Hydrocarbon Recovery (S1452)</u>	<u>X</u>							
Area 1 – Fluid Coker	X	X						X
Area 1 - Delayed Coker	X	X	X	X		X		X
Area 1 - Gas Plant #5	X	X						X
Area 1 – Boiler House #5	X	X						No
Area 2 - Cat Cracker	X	X						X
Area 2 - Gas Plant #4	X	X						X
Area 2 - Feed Prep #1	X	X						X
Area 2 - Feed Prep #2	X	X						X
Area 2 - Cracking Plat (DEA)	X	X						X
Area 2 - Foul Water	X	X						X
Area 2 - Flare Complex	X	X						X
Area 2 - FCCU (Boiler #7)	X	X						No ²
Area 2 - Crude #3	X	X						X
Area 2 - Cracking Plat (Pump/Stor)	X	X						X
Area 3 - HDS Plant #2	X	X		X				X
Area 3 - HDS Plant #1	X	X		X				X
Area 3 - HCR 1 st Stage (HDN)	X	X						X
Area 3 - HCR 2 nd Stage (Hydrocracker)	X	X						X
Area 3 - Hydrogen Plant #1	X	X						X
Area 4 - Reformer #2	X	X			X		X	X
Area 4 - Isom #1	X	X						X

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Table IV- CZ J.0								
Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 <u>Note XX</u>	BAAQMD Reg.-8-28	NSPS Part40 CFR 60, Subpart GGG; BAAQMD-Reg. 10-59 40 CFR 60, Subpart VV. Note 4	NSPS-Part40 CFR 60, Subpart GGa; NSPS-Part40 CFR 60, Subpart VVa NSPS-Part-60, Subpart-QQQ; BAAQMD-Reg. 10-69 Note 4	NESHAP Part-61, Subpart-J; 61 ; Subpart-V Note 5	NESHAP Part40 CFR 61, Subpart FF; BAAQMD Reg. 11-12	40 CFR 61, Subpart J; NESHAP Part-40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6	NESHAP Part-40 CFR 63, Subpart CC NSPS-Part40 CFR 60, Subpart VV Note 7
Area 4 - Gas Plant #1	X	✗						No ¹
Area 4 - Clarifying	X	✗						X
Area 4 - Alkylation Plant	X	✗						X
Area 4 - Reformer #3	X	✗						X
Area 4 - HDS Plant #3	X	✗						No ²
Area 4 - MTBE/Iso Octene	✗	✗	✗	✗				✗
Area 4 - Benzene Saturation	X	✗	X		✗		X	X
Area 5 - Boiler House #6	X	✗						✗
Area 5 - API Separator	X	✗		✗				X
Area 5 - Fire Grounds	X	✗						No ²
Area 5 - Transportation	X	✗						No ²
Area 5 - Vehicle Gasoline Dispensing	X							No-⁸³
Area 6 - Avon Wharf, Berth 1	X							No ¹
Area 6 - Avon Wharf, Berth 5	X	✗						X
Area 6 - Unit #50	X	✗		X		X		X
Area 6 - Main Pump House #2	X	✗						X
Area 6 - Amorco Wharf	X	✗						X
Area 6 - Tract #3 LPG Shipping	X	✗						No ²
Area 6 - Tract #3 Booster Pump House	X	✗						X
Area 6 - Tract #3 Shipping	X	✗						X
Area 6 - Tract #6 (Gasoline Blending)	X	✗						X
Area 6 - Tract #4 (LPG)	X	✗						No ²
Area 6 - Tract #3 (Gauger)	X	✗						X
Area 6 - Tract #4 (Storage Tanks)	X	✗						X

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Table IV- CZJ.0								
Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 <u>Note XX</u>	BAAQMD Reg.-8-28	NSPS Part40 CFR 60, Subpart GGG; BAAQMD-Reg. 10-59 40 CFR 60, Subpart VV Note 4	<u>NSPS-Part40</u> CFR 60, Subpart GGGa; <u>NSPS-Part40</u> CFR 60, Subpart VVa NSPS-Part-60, Subpart-qqq; BAAQMD-Reg. 10-69 Note 4	NESHAP Part-61, Subpart-J; 61, Subpart-V Note 5	NESHAP Part40 CFR 61, Subpart FF; BAAQMD Reg. 11-12	40 CFR 61, Subpart J; NESHAP Part-40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6	NESHAP Part-40 CFR 63, Subpart CC NSPS-Part40 CFR 60, Subpart VV Note 7
Area 6 - Tract #6 (Pump/Storage)	X	✗						X
Area 7 - Chem Plant (Scot)	✗	✗						No⁻²³
Area 7 - Chem Plant (Ammonia)	X	✗						X No ⁻²³
Area 7 - Chem Plant (Sulfur & SCOD)	X	✗						X ³ No ⁻²³
Area 7 - Chem Plant (Acid)	X	✗						X ³ No ^{-2,3}
Area 7 - Chem Plant (DEA)	X	✗						X ³

Note 1 – Refinery MACT is not applicable to fuel gas systems or emission points routed to fuel gas systems{ 63.640 (d)(5)}.

Note 2 – HAPs expected to be < 4%.

Note 3 – Petroleum refining process units include sulfur plants {63.641, see definition of “petroleum refining process unit”}.

Note 4 – Provisions of ~~this 40 CFR 60 Subpart GGG and 40 CFR 60 Subpart GGGa subpart~~ only apply to affected facilities.

Note 5 – Provisions of 40 CFR 61 Subpart V only apply to ~~pumps, compressors, pressure relief devices, sampling connection systems, open ended valves or lines, valves, connectors, surge control vessels, and bottoms receivers, and control devices~~ in benzene service as defined at 40 CFR 61.111 (40 CFR 61 Subpart J). Pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, and valves in benzene service and control devices as defined at 40 CFR 61.111 are also equipment leaks subject to 40 CFR 63 Subpart CC (63.641 Definitions). These equipment leaks are subject to the overlap of Subpart CC with other regulations for equipment leaks in 63.640(p), which requires that equipment leaks subject to Subpart CC and also subject to any Subpart in Part 60 or Part 61 must comply with Subpart CC only.

Note 6 - Provisions of BAAQMD Regulation 11 Rule 7 only apply to pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, ~~flange or other~~ connectors, ~~surge control~~product accumulator vessels ~~in benzene service, bottoms receivers, and control devices in volatile hazardous air pollutant service~~ as defined at ~~40 CFR 61.241~~Regulation 11-7-205.

Note 7 - Provisions only apply to affected facilities defined at 40 CFR 63.648 in organic hazardous air pollutant (HAP) service as defined at 40 CFR 63.641.

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 18-18	Organic Compounds - Equipment Leaks (3/18/9809/15/2004)		
8-18-100	General/Applicability	Y	
8-18-110	<u>Exemption, Controlled Seal Systems and Pressure Relief Devices</u>	<u>N</u>	
8-18-113	<u>Limited Exemption, Initial Boiling Point</u>	<u>Y</u>	
8-18-115	<u>Limited Exemption, Storage Tanks</u>	<u>Y</u>	
8-18-116	<u>Limited Exemption, Vacuum Service</u>	<u>Y</u>	
8-18-200	Definitions	Y	
8-18-301	General Standard	Y	
8-18-302	Valves	Y N	
8-18-303	Pumps and compressors	Y N	
8-18-304	Connections	Y N	
8-18-304.1	<u>Connection Leak Discovered by Operator</u>	<u>Y</u>	
8-18-304.2	<u>Connection Leak Discovered by APCO</u>	<u>N</u>	
8-18-304.3	<u>Connections Subject to 8-18-306</u>	<u>N</u>	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	Y N	
8-18-306.1	<u>Non-repairable Equipment</u>	<u>N</u>	
8-18-306.2	<u>Non-repairable Equipment</u>	<u>N</u>	
8-18-306.3	<u>Non-Repairable Connections Count as Two Valves</u>	<u>N</u>	
8-18-306.4	<u>Requirements for Valves with Major Leaks (>=10,000 ppm)</u>	<u>N</u>	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-401	Inspection	Y N	
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	
8-18-503	<u>Reports</u>	<u>N</u>	
8-18-601	<u>Analysis of Samples</u>	<u>Y</u>	
8-18-602	<u>Inspection Procedure</u>	<u>Y</u>	
8-18-603	<u>Determination of Control Efficiency</u>	<u>N</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-604	<u>Determination of Mass Emissions</u>	<u>N</u>	
SIP Regulation 8 Rule 18	<u>Organic Compounds, Equipment Leaks (06/05/2003)</u>		
8-18-110	<u>Exemption, Controlled Seal Systems and Pressure Relief Devices</u>	<u>Y</u>	
8-18-302	<u>Valves</u>	<u>Y</u>	
8-18-303	<u>Pumps and Compressors</u>	<u>Y</u>	
8-18-304	<u>Connections</u>	<u>Y</u>	
8-18-304.2	<u>Connection Leak Discovered by APCO</u>	<u>Y</u>	
8-18-306	<u>Non-repairable Equipment</u>	<u>Y</u>	
8-18-306.1	<u>Non-repairable Equipment</u>	<u>Y</u>	
8-18-306.2	<u>Non-repairable Equipment</u>	<u>Y</u>	
8-18-401	<u>Inspection</u>	<u>Y</u>	
8-18-502	<u>Records</u>	<u>Y</u>	
8-18-603	<u>Determination of Control Efficiency</u>	<u>Y</u>	
8-18-604	<u>Determination of Mass Emissions</u>	<u>Y</u>	
BAAQMD Regulation 8-28	<u>Organic Compounds, Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/9812/21/2005)</u>	<u>N</u>	
8-28-100	<u>General/Applicability</u>	<u>N</u>	
8-28-200	<u>Definitions</u>	<u>N</u>	
8-28-302	<u>Pressure Relief Devices at New or Modified Sources at Petroleum Refineries</u>	<u>N</u>	
8-28-303	<u>Pressure Relief Devices at Existing Sources at Petroleum Refineries</u>	<u>N</u>	
8-28-304	<u>Repeat Releases—Pressure Relief Devices at Petroleum Refineries</u>	<u>N</u>	
8-28-401	<u>Reporting at Petroleum Refineries and Chemical Plants</u>	<u>N</u>	
8-28-402	<u>Inspection</u>	<u>N</u>	
8-28-403	<u>Records</u>	<u>N</u>	
8-28-404	<u>Identification</u>	<u>N</u>	
8-28-405	<u>Prevention Measures Procedures Process Safety Requirements</u>	<u>N</u>	
8-28-406	<u>Monitoring System Demonstration Report</u>	<u>N</u>	
8-28-407	<u>Process Unit Identification Report</u>	<u>N</u>	
8-28-502	<u>Records</u>	<u>N</u>	
8-28-503	<u>Monitoring</u>	<u>N</u>	
8-28-602	<u>Determination of Control Efficiency</u>	<u>N</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP – Regulation 8, Rule 28	Organic Compounds, Episodic Releases from Pressure Relief Devices (05/24/2004) Pressure Relief Valves at Petroleum Refineries and Chemical Plants (6/15/94)	Y	
8-28-301	Pressure Relief Valve	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304	Repeat Release – Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
8-28-602	Determination of Control Efficiency	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-52	Subpart VV - Standards of Performance for Equipment Leaks for SOCFI (Fugitive Emission Sources) Applicability determined by 40 CFR 63 Subpart CC and 40 CFR 60 Subpart GGG		
10-59	Subpart GGG - Standards of Performance for Equipment Leaks for Petroleum Refineries (Fugitive Emission Sources)		
BAAQMD Regulation 11 Rule 7	Hazardous Pollutants: Benzene (05/15/1985)		
11-7-101	General/Applicability	N	
11-7-112	Exemption: Vacuum Service	N	
11-7-213	Leak Definition	N	
11-7-301	General: Equipment must be uniquely marked	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	
11-7-306.1	Open-Ended Valves or Lines	N	
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307	Valve Standards	N	
11-7-307.1	Valve Standards	N	
<u>11-7-307.2</u>	<u>Valve Standards</u>	<u>N</u>	
<u>11-7-307.3</u>	<u>Valve Standards</u>	<u>N</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11-7-307.4	Valve Standards	<u>N</u>	
11-7-307.5	Valve Standards	<u>N</u>	
11-7-308	Pressure Relief Devices in Liquid Service, Flanges and Other Connector Standards	<u>N</u>	
11-7-309	Product Accumulator Vessel Standards	<u>N</u>	
11-7-310	Delay of Repair Limitations	<u>N</u>	
11-7-310.1	Delay of Repairs	<u>N</u>	
11-7-310.4	Delay of Repairs	<u>N</u>	
11-7-311	Closed Vent Systems and Control Device Standards	<u>N</u>	
11-7-312	Alternative Standards for Valves in Benzene Service	<u>N</u>	
11-7-314	Alternative Means of Emission Limitation	<u>N</u>	
11-7-401	Visually inspect pumps for liquid dripping weekly, except for “no detectable emissions” and pumps equipped with closed vent systems	<u>N</u>	
11-7-403	Reporting: semiannually for valves, pumps, and compressors	<u>N</u>	
11-7-501	Monitor pumps and valves, except for “no detectable emissions”	<u>N</u>	
11-7-502	Recordkeeping	<u>N</u>	
11-7-502.1.4	Records	<u>N</u>	
11-7-502.1.5	Records	<u>N</u>	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	<u>N</u>	
40 CFR Part 60 Subpart A	General Provisions	Y	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record-keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumstances	Y	
60.13	Monitoring requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.14	Modifications	☒	
60.15	Reconstruction	☒	
60.16	Priority list	☒	
60.17	Incorporation by reference	☒	
60.18	General control device requirements	☒	
60.19	General notification and reporting requirements	☒	
NSPS Part 40 CFR 60 Subpart VV; BAAQMD Regulation 10- 52	Standards of Performance for Equipment Leaks for SOCOMI (Fugitive Emission Sources) (8/18/95);(06/02/2008) BAAQMD Standards of Performance for New Stationary Sources (12/20/95) Referenced by 40 CFR 63 Subpart CC and 40 CFR 60 Subpart GGG		
60.480	Applicability and designation of affected facility	☒	
60.480(d)	An affected facility that qualifies for one or more exemption from 60.482 shall maintain records as required in 60.486(i).	☒	
60.482-1	Standards: General	Y	
60.482-1(b)	Compliance with 60.482-1 to 60.482-10 will be determined....	Y	
60.482-1(d)	Equipment that is in vacuum service is excluded from the requirements of 60.482-2 to 60.482-10 if it is identified as required in 60.486(e)(5).	Y	
60.482-2	Standards: Pumps in light liquid service	Y	
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-2(d).	Y	
60.482-2(a)(2)	Weekly visual inspection of each pump.	Y	
60.482-2(b)(1)	Air measurement instrument reading >10,000 ppm indicates leak	Y	
60.482-2(b)(2)	Dripping liquid from pump seal indicates leak	Y	
60.482-2(c)(1)	Leak repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-2(c)(2)	First attempt at leak repair made within 5 calendar days.	Y	
60.482-2(d)	Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2(a).	Y	
60.482-2(g)	Pump designated, per 60.486(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed.	Y	
60.482-2(h)	Any pump located in an unmanned plant site is exempt from the requirements of 60.482-2(a)(2), (d)(4) and (d)(5) provided each pump is visually inspected as often as practicable and at least monthly.	☒	
60.482-3	Standards: Compressor	Y	
60.482-3(a)	Each compressor equipped with seal system that includes a barrier fluid system and prevents leakage of VOC to atmosphere.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-3(b)	Each compressor seal system operated with barrier fluid at pressure greater than compressor stuffing box pressure; or equipped with system that purges barrier fluid into process stream with zero emissions to atmosphere.	Y	
60.482-3(c)	Barrier fluid system shall be in heavy liquid service.	Y	
60.482-3(d)	Each barrier fluid system equipped with sensor that detects failure of seal system, barrier fluid system or both.	Y	
60.482-3(e)(1)	Each sensor shall be checked daily or shall be equipped with an audible alarm.	Y	
60.482-3(e)(2)	Owner shall determine a criterion that indicates failure of seal system, barrier fluid system, or both.	Y	
60.482-3(f)	If sensor indicates failure based on criterion established in 60.482-3(e)(2), a leak is detected.	Y	
60.482-3(g)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-3(g)(2)	First attempt at repair shall be made within 5 calendar days.	Y	
60.482-3(j)	Existing reciprocating compressor in a process unit that becomes an affected facility is exempt from 60.482-3(a) through (e) and (h) if recasting distance piece or replacing compressor are only options for compliance.	Y	
60.482-4	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-4(a)	Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm).	Y	
60.482-4(b)(1)	After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9.	Y	
60.482-4(b)(2)	No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions.	Y	
60.482-4(c)	Any pressure relief device that is routed to a process or fuel gas system <u>or equipped with a closed vent system capable of capturing and transporting leakage to a control device as described in 60.482-10</u> is exempt from 60.482-4(a) and (b).	Y	
60.482-4(d)(1)	Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4(a) and (b) provided complies with 60.482-4(d)(2).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-4(d)(2)	After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9.	Y	
60.482-5	Standards: Sampling connecting systems	Y	
60.482-6	Standards: Open-ended valves or lines	Y	
60.482-7	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7(a)	Monitor monthly to detect leaks, except as provided in 60.482-7(g) and (h) and 60.483-2.	Y	
60.482-7(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-7(c)	Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter.	Y	
60.482-7(d)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-7(d)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-7(e)	Methods for first attempt at repair.	Y	
60.482-7(g)	Valve designated, per 60.486(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7(a) if hazard documented and written monitoring plan is followed.	Y	
60.482-7(h)	Valve designated, per 60.486(f)(1), as difficult-to-monitor valve is exempt from 60.482-7(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year.	Y	
60.482-8	Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors.	Y	
60.482-8(a)	Monitor within 5 days if evidence of potential leak is found.	Y	
60.482-8(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-8(c)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-8(c)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-8(d)	Minimum requirements for first attempt at repair.	Y	
60.482-9	Standards: Delay of Repair		
60.482-9(a)	Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown.	Y	
60.482-9(b)	Repair may be delayed for isolated equipment.	Y	
60.482-9(c)	Delay of repair for valves only allowed under certain circumstances.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 within 6 months.	Y	
60.482-9(e)	Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met.	Y	
60.482-10(b)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10(c)	Flares used to comply with this subpart shall comply with 60.48 Enclosed combustion devices shall be designed and operated to reduce the VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10(d)	Flares used to comply with this subpart shall comply with 60.48.	Y	
60.482-10(e)	Monitoring of control devices	Y	
60.482-10(g)	First attempt at repairing leaks (> 500 ppmv) in 5 days. Repair must be completed within 15 days.	Y	
60.483-2	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	
60.485(a)	Performance tests methods specified in Appendix A or 60.8(b)	Y	
60.485(b)	Method 21 for determining presence of leaking sources.	Y	
60.485(d)	Test each piece of equipment unless process unit not in VOC series.	Y	
60.485(e)	Light liquid service demonstrated by vapor pressure and if liquid at operating conditions.	Y	
60.485(f)	Samples representative of process fluid.	Y	
60.485(6)	Flare compliance tests.	Y	
60.486	Record keeping Requirements	Y	
60.486(a)	Comply with recordkeeping requirements of this section.	Y	
60.486(b)	Identification and tagging requirements for leaks detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2.	Y	
60.486(c)	When leak detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2, record in log and keep for 2 years.	Y	
60.486(d)	Information to be recorded pertaining to the design requirements for closed vent systems and control devices: designs, dates, monitoring parameters required in 60.486(e), non-operational plans, startup and shutdown dates.	Y	
60.486(e)	Information to be recorded for all equipment subject to requirements in 60.482-1 through 60.482-10.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.486(f)	Record information pertaining to all valves subject to the requirements in 60.482-7(g) and (h).	Y	
60.486(g)	Record information pertaining to all valves subject to the requirements in 60.483-2.	Y	
60.486(h)	Record design criterion required in 60.482-2(d)(5) and 60.482-3(e)(2).	Y	
60.486(i)	Record information in log that is readily accessible for use in determining exemption as provided in 60.480(d).	Y	
60.486(j)	Records to demonstrate piece of equipment not in VOC service.	Y	
60.486(k)	Provisions of 60.7(b) and (d) do not apply if subject to VV.	Y	
60.487	Reporting Requirements	Y	
60.487(a)	Submit semiannual reports.	Y	
60.487(c)	Information to be included in semiannual reports.	Y	
60.487(e)	Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VV.	Y	
40 CFR 60 Subpart VVa	<u>Standards of Performance for Equipment Leaks for SO2MI (Fugitive Emission Sources) (06/02/2008)</u> <u>Referenced by 40 CFR 60 Subpart GGa</u>		
60.482-1a	Standards: General	<u>Y</u>	
60.482-1a(b)	Compliance with 60.482-1a to 60.482-10a will be determined....	<u>Y</u>	
60.482-1a(d)	Equipment that is in vacuum service is excluded from the requirements of 60.482-2a to 60.482-10a if it is identified as required in 60.486a(e)(5).	<u>Y</u>	
60.482-2a	Standards: Pumps in light liquid service	<u>Y</u>	
60.482-2a(a)(1)	Monthly monitoring of each pump, except for 60.482-2a(d).	<u>Y</u>	
60.482-2a(a)(2)	Weekly visual inspection of each pump.	<u>Y</u>	
60.482-2a(b)(1)	Air measurement instrument reading >10,000 ppm indicates leak	<u>Y</u>	
60.482-2a(b)(2)	Dripping liquid from pump seal indicates leak	<u>Y</u>	
60.482-2a(c)(1)	Leak repaired within 15 calendar days, except as provided in 60.482-9.	<u>Y</u>	
60.482-2a(c)(2)	First attempt at leak repair made within 5 calendar days.	<u>Y</u>	
60.482-2a(d)	Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2a(a).	<u>Y</u>	
60.482-2a(g)	Pump designated, per 60.486a(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2a(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed.	<u>Y</u>	
60.482-2a(h)	Any pump located in an unmanned plant site is exempt from the requirements of 60.482-2a(a)(2), (d)(4) and (d)(5) provided each pump is visually inspected as often as practicable and at least monthly.	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-3a	Standards: Compressor	<u>Y</u>	
60.482-3a(a)	Each compressor equipped with seal system that includes a barrier fluid system and prevents leakage of VOC to atmosphere.	<u>Y</u>	
60.482-3a(b)	Each compressor seal system operated with barrier fluid at pressure greater than compressor stuffing box pressure; or equipped with system that purges barrier fluid into process stream with zero emissions to atmosphere.	<u>Y</u>	
60.482-3a(c)	Barrier fluid system shall be in heavy liquid service.	<u>Y</u>	
60.482-3a(d)	Each barrier fluid system equipped with sensor that detects failure of seal system, barrier fluid system or both.	<u>Y</u>	
60.482-3a(e)(1)	Each sensor shall be checked daily or shall be equipped with an audible alarm.	<u>Y</u>	
60.482-3a(e)(2)	Owner shall determine a criterion that indicates failure of seal system, barrier fluid system, or both.	<u>Y</u>	
60.482-3a(f)	If sensor indicates failure based on criterion established in 60.482-3a(e)(2), a leak is detected.	<u>Y</u>	
60.482-3a(g)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	<u>Y</u>	
60.482-3a(g)(2)	First attempt at repair shall be made within 5 calendar days.	<u>Y</u>	
60.482-3a(j)	Existing reciprocating compressor in a process unit that becomes an affected facility is exempt from 60.482-3a(a) through (e) and (h) if recasting distance piece or replacing compressor are only options for compliance.	<u>Y</u>	
60.482-4a	Standards: Pressure relief devices in gas/vapor service	<u>Y</u>	
60.482-4a(a)	Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm).	<u>Y</u>	
60.482-4a(b)(1)	After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9a.	<u>Y</u>	
60.482-4a(b)(2)	No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions.	<u>Y</u>	
60.482-4a(c)	Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage to a control device as described in 60.482-10a is exempt from 60.482-4a(a) and (b).	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-4a(d)(1)	Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4a(a) and (b) provided complies with 60.482-4a(d)(2).	Y	
60.482-4a(d)(2)	After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9a.	Y	
60.482-5a	Standards: Sampling connecting systems	Y	
60.482-6a	Standards: Open-ended valves or lines	Y	
60.482-7a	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7a(a)	Monitor monthly to detect leaks, except as provided in 60.482-7a(g) and (h) and 60.483-2a.	Y	
60.482-7a(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-7a(c)	Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter.	Y	
60.482-7a(d)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	Y	
60.482-7a(d)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-7a(e)	Methods for first attempt at repair.	Y	
60.482-7a(g)	Valve designated, per 60.486a(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7a(a) if hazard documented and written monitoring plan is followed.	Y	
60.482-7a(h)	Valve designated, per 60.486a(f)(1), as difficult-to-monitor valve is exempt from 60.482-7a(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year.	Y	
60.482-8a	Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors.	Y	
60.482-8a(a)	Monitor within 5 days if evidence of potential leak is found.	Y	
60.482-8a(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-8a(c)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	Y	
60.482-8a(c)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-8a(d)	Minimum requirements for first attempt at repair.	Y	
60.482-9a	Standards: Delay of Repair		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-9a(a)	Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown.	<u>Y</u>	
60.482-9a(b)	Repair may be delayed for isolated equipment.	<u>Y</u>	
60.482-9a(c)	Delay of repair for valves only allowed under certain circumstances.	<u>Y</u>	
60.482-9a(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	<u>Y</u>	
60.482-9a(d)(2)	Pump leaks must be repaired within 6 months.	<u>Y</u>	
60.482-9a(e)	Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met.	<u>Y</u>	
60.482-10a(b)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	<u>Y</u>	
60.482-10a(c)	Enclosed combustion devices shall be designed and operated to reduce the VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	<u>Y</u>	
60.482-10a(d)	Flares used to comply with this subpart shall comply with 60.18.	Y	
60.482-10a(e)	Monitoring of control devices	<u>Y</u>	
60.482-10a(g)	First attempt at repairing leaks (> 500 ppmv) in 5 days. Repair must be completed within 15 days.	<u>Y</u>	
60.483-2a	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.	<u>Y</u>	
60.485a	Test Methods and Procedures	<u>Y</u>	
60.485a(a)	Performance tests methods specified in Appendix A or 60.8(b)	<u>Y</u>	
60.485a(b)	Method 21 for determining presence of leaking sources.	<u>Y</u>	
60.485a(d)	Test each piece of equipment unless process unit not in VOC series.	<u>Y</u>	
60.485a(e)	Light liquid service demonstrated by vapor pressure and if liquid at operating conditions.	<u>Y</u>	
60.485a(f)	Samples representative of process fluid.	<u>Y</u>	
60.485a(6)	Flare compliance tests.	<u>Y</u>	
60.486a	Record keeping Requirements	<u>Y</u>	
60.486a(a)	Comply with recordkeeping requirements of this section.	<u>Y</u>	
60.486a(b)	Identification and tagging requirements for leaks detected as specified in 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, and 60.483-2a.	<u>Y</u>	
60.486a(c)	When leak detected as specified in 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, and 60.483-2a, record in log and keep for 2 years.	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.486a(d)	Information to be recorded pertaining to the design requirements for closed vent systems and control devices: designs, dates, monitoring parameters required in 60.486a(e), non-operational plans, startup and shutdown dates.	<u>Y</u>	
60.486a(e)	Information to be recorded for all equipment subject to requirements in 60.482-1a through 60.482-10a.	<u>Y</u>	
60.486a(f)	Record information pertaining to all valves subject to the requirements in 60.482-7a(g) and (h).	<u>Y</u>	
60.486a(g)	Record information pertaining to all valves subject to the requirements in 60.483-2a.	<u>Y</u>	
60.486a(h)	Record design criterion required in 60.482-2a(d)(5) and 60.482-3a(e)(2).	<u>Y</u>	
60.486a(i)	Record information in log that is readily accessible for use in determining exemption as provided in 60.480a(d).	<u>Y</u>	
60.486a(j)	Records to demonstrate piece of equipment not in VOC service.	<u>Y</u>	
60.486a(k)	Provisions of 60.7(b) and (d) do not apply if subject to VV a.	<u>Y</u>	
60.487a	Reporting Requirements	<u>Y</u>	
60.487a(a)	Submit semiannual reports.	<u>Y</u>	
60.487a(c)	Information to be included in semiannual reports.	<u>Y</u>	
60.487a(e)	Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VV a.	<u>Y</u>	
NSPS Part 40 CFR 60 Subpart GGG; BAAQMD Regulation 10-59	Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After 1/4/1983 and on or Before 11/7/2006 (Fugitive Emission Sources) (5/30/8406/02/2008); BAAQMD Standards of Performance for New Stationary Sources (4/19/89)		
40 CFR 60.590	Applicability and designation of affected facility	<u>Y</u>	
60.590(a)(1)	Applicability and designation of affected facility; petroleum refineries	<u>Y</u>	
60.590(a)(2)	Applicability and designation of affected facility; petroleum refineries - compressors	<u>Y</u>	
60.590(a)(3)	Applicability and designation of affected facility; petroleum refineries – all equipment within a process unit	<u>Y</u>	
60.590(b)	Applicability and designation of affected facility; petroleum refineries – applicable dates	<u>Y</u>	
60.590(c)	Applicability and designation of affected facility; petroleum refineries – limit of definition of modification	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.590(e)</u>	<u>Applicability and designation of affected facility; petroleum refineries – stay of standards; definition of process unit</u>	<u>Y</u>	
60.591	Definitions	Y	
60.592	Subject to provisions of Part 60, Subpart VV Standards	Y	
<u>60.592(a)</u>	<u>Standards: Comply with 40 CFR 60 Subpart VV [60.482-1 thru 60.482-10]</u>	<u>Y</u>	
<u>60.592(b)</u>	<u>Standards: Alternatives to 60.482-7 for valves</u>	<u>Y</u>	
<u>60.592(c)</u>	<u>Standards: Allowance for determination of equivalency</u>	<u>Y</u>	
<u>60.592(d)</u>	<u>Standards: Comply with 60.485 in Subpart VV except as provided in 60.593</u>	<u>Y</u>	
<u>60.592(e)</u>	<u>Standards: Comply with 60.486 and 60.487 for recordkeeping and reporting</u>	<u>Y</u>	
60.593	Exceptions	Y	
<u>60.593(a)</u>	<u>Exceptions: Allowable exceptions to the provisions of subpart VV</u>	<u>Y</u>	
<u>60.593(b)(1)</u>	<u>Exceptions: Exemption for compressors in hydrogen service</u>	<u>Y</u>	
<u>60.593(b)(2)</u>	<u>Exceptions: Determination of hydrogen service - methods</u>	<u>Y</u>	
<u>60.593(b)(3)(i)</u>	<u>Exceptions: Determination of hydrogen service – engineering judgement</u>	<u>Y</u>	
<u>60.593(b)(3)(ii)</u>	<u>Exceptions: Determination of hydrogen service - revisions</u>	<u>Y</u>	
<u>60.593(c)</u>	<u>Exceptions: Exemption for existing reciprocating compressor that becomes an affected facility</u>	<u>Y</u>	
<u>60.593(d)</u>	<u>Exceptions: additional definition of “in light liquid service”</u>	<u>Y</u>	
<u>60.593(f)</u>	<u>Exceptions: open-ended valves or lines containing asphalt</u>	<u>Y</u>	
BAAQMD Regulation 10-59	Incorporates by reference 40 CFR 60 Subpart GGG	∓	
40 CFR 60 Subpart GGGa	<u>Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After 11/7/2006 (06/02/2008)</u>		
<u>60.590a</u>	<u>Applicability and designation of affected facility</u>	<u>Y</u>	
<u>60.590a(a)(1)</u>	<u>Applicability and designation of affected facility; petroleum refineries</u>	<u>Y</u>	
<u>60.590a(a)(2)</u>	<u>Applicability and designation of affected facility; petroleum refineries - compressors</u>	<u>Y</u>	
<u>60.590a(a)(3)</u>	<u>Applicability and designation of affected facility; petroleum refineries – all equipment within a process unit</u>	<u>Y</u>	
<u>60.590a(b)</u>	<u>Applicability and designation of affected facility; petroleum refineries – applicable dates</u>	<u>Y</u>	
<u>60.590a(c)</u>	<u>Applicability and designation of affected facility; petroleum refineries – limit of definition of modification</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.590a(e)</u>	<u>Applicability and designation of affected facility; petroleum refineries – stay of standards; definition of process unit</u>	<u>Y</u>	
60.591a	<u>Definitions</u>	<u>Y</u>	
60.592a	<u>Standards</u>	<u>Y</u>	
<u>60.592a(a)</u>	<u>Standards: Comply with 40 CFR 60 Subpart VVa [60.482-1a thru 60.482-10a]</u>	<u>Y</u>	
<u>60.592a(b)</u>	<u>Standards: Alternatives to 60.482-7a for valves</u>	<u>Y</u>	
<u>60.592a(c)</u>	<u>Standards: Allowance for determination of equivalency</u>	<u>Y</u>	
<u>60.592a(d)</u>	<u>Standards: Comply with 60.485a in Subpart VVa except as provided in 60.593a</u>	<u>Y</u>	
<u>60.592a(e)</u>	<u>Standards: Comply with 60.486a and 60.487a for recordkeeping and reporting</u>	<u>Y</u>	
60.593a	<u>Exceptions</u>	<u>Y</u>	
<u>60.593a(a)</u>	<u>Exceptions: Allowable exceptions to the provisions of subpart VVa</u>	<u>Y</u>	
<u>60.593a(b)(1)</u>	<u>Exceptions: Exemption for compressors in hydrogen service</u>	<u>Y</u>	
<u>60.593a(b)(2)</u>	<u>Exceptions: Determination of hydrogen service - methods</u>	<u>Y</u>	
<u>60.593a(b)(3)(i)</u>	<u>Exceptions: Determination of hydrogen service – engineering judgement</u>	<u>Y</u>	
<u>60.593a(b)(3)(ii)</u>	<u>Exceptions: Determination of hydrogen service - revisions</u>	<u>Y</u>	
<u>60.593a(c)</u>	<u>Exceptions: Exemption for existing reciprocating compressor that becomes an affected facility</u>	<u>Y</u>	
<u>60.593a(d)</u>	<u>Exceptions: additional definition of “in light liquid service”</u>	<u>Y</u>	
<u>60.593a(f)</u>	<u>Exceptions: open-ended valves or lines containing asphalt</u>	<u>Y</u>	
<u>60.593a(g)</u>	<u>Exceptions: connectors in gas/vapor or light liquid service</u>	<u>Y</u>	
NSPS Part 60 Subpart QQQ; BAAQMD Regulation 10-69	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)		
40 CFR 60.690	Applicability	Y	
60.691	Definitions	Y	
60.692-5	Closed-vent systems and control devices Standards	Y	
60.692-6	Delay of Repair Standards	Y	
60.695	Monitoring of closed-vent systems with bypass lines	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.697	Recordkeeping	Y	
60.698	Reporting	Y	

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BAAQMD Regulation 10-69	Incorporates by reference 40 CFR 60 Subpart QQQ	N	
NESHAP Part 61 Subpart A	General Provisions	N	
61.1	List of pollutants and applicability	N	
61.2	Definitions	N	
61.3	Units and abbreviations	N	
61.4	Address	N	
61.5	Prohibited activities	N	
61.6	Determination of construction or modification	N	
61.7	Application for approval of construction or modification	N	
61.8	Approval of construction or modification	N	
61.9	Notification of startup	N	
61.10	Source reporting and waiver request	N	
61.11	Waiver of compliance	N	
61.12	Compliance with standards and maintenance requirements	N	
61.13	Emission tests and waiver of emission tests	N	
61.14	Monitoring requirements	N	
61.15	Modifications	N	
61.16	Availability of information	N	
61.17	State Authority	N	
61.18	Incorporations by reference	N	
61.19	Circumvention	N	
NESHAP Part 40 CFR 61 Subpart J	<u>National Emission Standards NESHAPS for Equipment Leaks (Fugitive Emission Sources) of Benzene (6/6/8412/14/2000)</u> <u>Applicability limited to component types not also subject to 40 CFR 63 Subpart CC by 40 CFR 63 Subpart CC overlap in 63.640(p)</u>		
61.110	<u>Applicability and designation of sources</u>	Y	
61.110(a)	<u>Applicability and designation of sources; definition of sources [pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart]</u>	Y	
61.110(c)(1)	<u>Applicability and designation of sources; Exemptions; Keep records per 61.246(i)</u>	Y	
61.110(c)(3)	<u>Applicability and designation of sources; Exemptions – process units with no equipment in benzene service</u>	Y	

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<u>61.110(d)</u>	<u>Applicability and designation of sources; Overlap with 40 CFR Part 60 (comply with 40 CFR 61 Subpart J)</u>	<u>Y</u>	
61.111	Definitions	Y	
61.112	Subject to provisions of Part 61, Subpart V Standards	Y	
<u>61.112(a)</u>	<u>Standards; Comply with 40 CFR 61 Subpart V</u>	<u>Y</u>	
<u>61.112(b)</u>	<u>Standards; Alternative compliance for valves</u>	<u>Y</u>	
<u>61.112(c)</u>	<u>Standards; Allowance for alternative means of emission limitation</u>	<u>Y</u>	
NESHAP Part 40 CFR 61 Subpart V; BAAQMD Regulation 11-7	National Emission Standards-NESHAPS for Equipment Leaks (Fugitive Emission Sources) (6/6/8412/14/2000); Hazardous Pollutants: Benzene (3/6/85) <u>Referenced by 40 CFR 61 Subpart J. Applicability limited to component types specified in 40 CFR 61 Subpart J and not also subject to 40 CFR 63 Subpart CC by 40 CFR 63 Subpart CC overlap in 63.640(p)</u>		
40 CFR-61.240	Applicability: VHAP service and designation of sources	Y	
<u>61.240(a)</u>	<u>Applicability and designation of sources: VHAP service</u>	<u>Y</u>	
<u>61.240(b)</u>	<u>Applicability and designation of sources: applicability depends on referencing subpart</u>	<u>Y</u>	
<u>61.240(c)</u>	<u>Applicability and designation of sources: Overlap with Part 60</u>	<u>Y</u>	
<u>61.240(d)</u>	<u>Applicability: VHAP service; Alternative means of compliance</u>	<u>Y</u>	
<u>61.240(d)(4)</u>	<u>Applicability: VHAP service; Alternative means of compliance; rules referencing this subpart</u>	<u>Y</u>	
61.241	Definitions	Y	
61.242-1	General Standards: General	Y	
<u>61.242-1(a)</u>	<u>Standards: General; comply with 61.242-1 thru 61.242-11 for new and existing sources except as provided in 61.243 and 61.244</u>	<u>Y</u>	
<u>61.242-1(b)</u>	<u>Standards: General; Determination of compliance</u>	<u>Y</u>	
<u>61.242-1(c)(1)</u>	<u>Standards: General; Allowance for alternative means of emission limitation</u>	<u>Y</u>	
<u>61.242-1(d)</u>	<u>Standards: General; Identification requirements</u>	<u>Y</u>	
<u>61.242-1(e)</u>	<u>Standards: General; Exemption for equipment in vacuum service</u>	<u>Y</u>	
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	
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(d)	Requirements for Dual Mechanical seal pump	Y	
61.242-2(e)	No detectable emission designation: <500 ppm	Y	

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61.242-2(f)	Requirements for Closed Vent Systems	Y	
61.242-2(g)	Monthly visual inspections for un-manned sites	Y	
61.242-10(b)	Repair may be delayed for isolated equipment	Y	
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	
61.242-3	Compressor Standards	Y	
61.242-4	Requirements for Pressure Relief Devices in gas/vapor service	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)-(e)	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(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	
61.242-10(b)	Repair may be delayed for isolated equipment	Y	
61.242-10(e)	Delay of repair for valves is only allowed under certain circumstances	Y	
61.242-8	Pressure Relief Devices in liquid service and Flanges and other Connectors Standards: <u>Connectors</u>	Y	
<u>61.242-8(a)</u>	<u>Standards: Connectors; procedures if evidence of leak is found (visual, audible, olfactory, or other method)</u>	<u>Y</u>	
<u>61.242-8(a)(1)</u>	<u>Standards: Connectors; procedures if evidence of leak is found; monitor within 5 days by Method 21</u>	<u>Y</u>	
<u>61.242-8(a)(2)</u>	<u>Standards: Connectors; procedures if evidence of leak is found; eliminate indication of leak</u>	<u>Y</u>	
<u>61.242-8(b)</u>	<u>Standards: Connectors; definition of Method 21 leak (> 10,000 ppm)</u>	<u>Y</u>	
<u>61.242-8(c)(1)</u>	<u>Standards: Connectors; leak repair and delay of repair</u>	<u>Y</u>	
<u>61.242-8(c)(2)</u>	<u>Standards: Connectors; leak repair – time for first attempt</u>	<u>Y</u>	
<u>61.242-8(d)</u>	<u>Standards: Connectors; leak repair – methods for first attempt</u>	<u>Y</u>	

VI. Permit Conditions

**Table IV – ~~DAJ.1~~
 Source Specific Applicable Requirements
EQUIPMENT LEAK COMPONENTS COMPONENTS, EXCLUDING WASTEWATER
COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.242-9	Standards: surge control vessels and bottoms receivers: If not routed back to the process and if meets conditions in Table 1 or Table 2, then Product accumulator vessels shall be equipped equip with a closed-vent system and route to process or to control device as described in 61.242-11 or approved alternative or comply with 63.119(b) and (c)	Y	
61.242-10	Standards: Delay of repair		
61.242-10(a)	Standards: Delay of repair; allowed if technically infeasible within 15 days without process unit shutdown		
61.242-10(b)	Standards: Delay of repair; isolated equipment		
61.242-10(e)	Standards: Delay of repair; requirements to complete repairs		
61.244	Alternative means of emission limitation		
61.242-11	Requirements for Closed-vent systems and control devices	Y	
61.242-11(c)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
61.242-11(d)	Flares used to comply with this subpart shall comply with 60.18.	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	
61.245(b)	Test Methods and Procedures; Method 21 monitoring	Y	
61.245(d)	Test Methods and Procedures; determination of VHAP service	Y	
61.245(e)	Test Methods and Procedures; determination flare compliance	Y	
61.246	Recordkeeping requirements	Y	
61.246(a)	Recordkeeping requirements; compliance required	Y	
61.246(b)	Recordkeeping requirements; identification of leaking components	Y	
61.246(c)	Recordkeeping requirements; records for leaking components	Y	
61.246(e)	Recordkeeping requirements; records for affected equipment	Y	
61.246(i)	Recordkeeping requirements; records for exempt process units	Y	
61.247	Reporting	Y	
BAAQMD Reg. 11-7-301	General: Equipment must be uniquely marked	N	
11-7-100	General/Applicability	N	
11-7-200	Definitions	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	

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Table IV – ~~DAJ.1~~
Source Specific Applicable Requirements
EQUIPMENT LEAK COMPONENTS COMPONENTS, EXCLUDING WASTEWATER
COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
11-7-401	Visually inspect pumps for liquid dripping weekly, except for “no detectable emissions” and pumps equipped with closed vent systems	N	
11-7-402	Initial Report within 90 days	N	
11-7-403	Reporting: semiannually for valves, pumps, and compressors	N	
11-7-501	Monitor pumps and valves, except for “no detectable emissions”	N	
11-7-502	Recordkeeping	N	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	N	
40 CFR Part 63 Subpart A	General Provisions	Y	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities	Y	
63.5	Construction and reconstruction	Y	
63.5(d)	Application for approval of construction or reconstruction	Y	
63.5(d)(1)	General Application Requirements	Y	
63.5(d)(2)	Application for approval of construction	Y	
63.5(d)(3)	Application for approval of reconstruction	Y	
63.5(d)(4)	Additional information	Y	
63.6	Compliance with standards and maintenance	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	

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**Table IV – ~~DAJ.1~~
Source Specific Applicable Requirements
EQUIPMENT LEAK COMPONENTS COMPONENTS, EXCLUDING WASTEWATER
COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.9	Notification requirements	N	
63.10	Recordkeeping and reporting requirements	N	
63.11	Control device requirements	N	
63.12	State authority and delegation	N	
63.13	Addresses of State air pollution control agencies and EPA Regional Offices	N	
63.14	Incorporation by references	N	
NESHAP Part 40 CFR 63 Subpart CC	<u>National Emission Standards for Hazardous Air Pollutants from NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</u>		
63.640(a)	Applicability	Y	
<u>63.640(c)(4)</u>	<u>Applicability: equipment leaks</u>	<u>Y</u>	
63.640(p)	Overlap of Subpart CC with other regulations for equipment leaks. Equipment leaks that are also subject to the provisions of 40 CFR parts 60 and 61 are required to comply only with the provisions specified in this subpart.	<u>Y</u>	
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(a)(1)	Equipment Leak Standards--Existing sources: 40 CFR 60 Subpart VV applies only to organic HAP service.	<u>Y</u>	
63.648(f)	Equipment Leak Standards--Reciprocating pumps in light liquid service	<u>Y</u>	
63.648(g)	Equipment Leak Standards--Compressors in hydrogen service	<u>Y</u>	
63.648(h)	Equipment Leak Standards--Record retention	<u>Y</u>	
63.648(b)	Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency	N	
63.654(d)	Recordkeeping and reporting	Y	
<u>Condition 11609</u>	<u>Apply to specific pumps vented to A14</u>		
<u>Part B6A</u>	<u>100 ppm limit for Alkylation Unit pumps vented to A14</u>	<u>Y</u>	
<u>Condition 19199</u>			
<u>Part A5</u>	<u>100 ppm limit for pumps installed as part of Logistical Improvements for Application 2508 (basis: BACT, Reg 8-18)</u>	<u>Y</u>	
<u>Part B5</u>	<u>100 ppm limit for pumps installed as part of Flare Gas Recovery Compressor Installation of Application 2508 (basis: BACT, Reg 8-18)</u>	<u>Y</u>	

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Table IV – ~~DA~~J.1
Source Specific Applicable Requirements
EQUIPMENT LEAK COMPONENTS COMPONENTS, EXCLUDING WASTEWATER
COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part C5	100 ppm limit for pumps installed as part of the S802 FCCU (No. 4 Gas Plant) FCCU Naphtha Splitter installation of Application 2508 (basis: BACT, Reg 8-18)	Y	
Part G5	100 ppm limit for pumps installed as part of the S1105 No. 4 HDS installation of Application 2508 (basis: BACT, Reg 8-18)	Y	

Table IV –J.2
Source-specific Applicable Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 8 Rule 28</u>	<u>Organic Compounds - Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/2005)</u>		
<u>8-28-101</u>	<u>Description, applicability</u>	<u>N</u>	
<u>8-28-111</u>	<u>Exemption, Evaporation Point</u>	<u>N</u>	
<u>8-28-112</u>	<u>Exemption, Storage Tanks</u>	<u>Y</u>	
<u>8-28-115</u>	<u>Exemption, Thermal Relief Valves</u>	<u>N</u>	
<u>8-28-302</u>	<u>Pressure Relief Devices at New or Modified Sources at Petroleum Refineries</u>	<u>N</u>	
<u>8-28-303</u>	<u>Existing Pressure Relief Devices Petroleum Refineries</u>	<u>N</u>	
<u>8-28-303.1</u>	<u>Existing Pressure Relief Devices Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency</u>	<u>N</u>	
<u>8-28-303.2</u>	<u>Existing Pressure Relief Devices Petroleum Refineries; OPTION – implement Process Safety Requirements (8-28-405)</u>	<u>N</u>	
<u>8-28-304</u>	<u>Repeat Release - Pressure Relief Devices at Petroleum Refineries</u>	<u>N</u>	
<u>8-28-304.1</u>	<u>Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release</u>	<u>N</u>	
<u>8-28-304.2</u>	<u>Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release</u>	<u>N</u>	

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Table IV –J.2
Source-specific Applicable Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-402.1	Inspection; daily inspection of PRDs with telltale indicators	N	
8-28-402.2	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	N	
8-28-407	Process Unit Identification Report	N	
8-28-502	Records	N	
8-28-502.1	Records; Prevention Measure Records	N	
8-28-502.2	Records; PRD records	N	
8-28-502.3	Records; Telltale indicator daily inspection records	N	
8-28-502.4	Records; PRD monitoring records	N	
8-28-503	Monitoring; monitoring system requirements	N	
8-28-602	Determination of Control Efficiency	N	
SIP Regulation 8 Rule 28	Organic Compounds - Episodic Releases from Pressure Relief Devices (05/24/2004)		
8-28-101	Description, applicability	Y	
8-28-111	Exemption, Evaporation Point (302 F); includes exemption for thermal relief valves	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-303.1	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency	Y	
8-28-303.2	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – implement Prevention Measure Procedures (SIP 8-28-405)	Y	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release	Y	
8-28-304.2	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	Y	
8-28-403	Records	Y	

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Table IV –J.2
Source-specific Applicable Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-28-404	Identification	<u>Y</u>	
8-28-405	Prevention Measures Procedures	<u>Y</u>	
8-28-602	Determination of Control Efficiency	<u>Y</u>	

Table IV –LJ.3
Deleted. All Blowdown Towers Removed from Hydrocarbon Service
Source-specific Applicable Requirements
S804–FCCU: BLOWDOWN , S807–COKER: BLOWDOWN DRUM,
S822-THERMAL AREA BLOWDOWN,
S834–No. 50 CRUDE UNIT BLOWDOWN DRUM

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	<u>N</u>	
<u>BAAQMD Regulation 8 Rule 2</u>	<u>Organic Compounds – Miscellaneous Operations (07/20/2005)</u>		
8-2-101	Description, Applicability	<u>Y</u>	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	<u>Y</u>	
8-2-601	Determination of Compliance	<u>Y</u>	

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Table IV –~~J.4 P~~
Source-specific Applicable Requirements
S823–HEAT EXCHANGER CLEANING PIT NORTH,
S824–HEAT EXCHANGER CLEANING PIT SOUTH

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90 12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	Y N	
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-303	Ringelmann Number 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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds, - Miscellaneous Operations (07/20/2005 6/15/94)	Y	
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	
BAAQMD Condition # 22227			
Part 1	Visible emission check (basis: Regulation 2-6-409.2)	Y	

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Table IV – ~~J.4~~ P
Source-specific Applicable Requirements
S823–HEAT EXCHANGER CLEANING PIT NORTH,
S824–HEAT EXCHANGER CLEANING PIT SOUTH

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Records (basis: Regulation 2-6-409.2)	Y	

Table IV – ~~J.5~~ W
Source-specific Applicable Requirements
~~S858–COLD CLEANER, S860–COLD CLEANER, S861–COLD CLEANER, AUTO SHOP~~
~~S1455–COLD CLEANER, AUTO SHOP~~
~~S1456–COLD CLEANER, S1457–COLD CLEANER, COMPRESSOR SHOP~~
~~S1458–COLD CLEANER~~
S1543, S1544, S1545, S1546, S1547, S1548
MAINTENANCE SHOPS EXEMPT COLD CLEANERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)		
8-1-320	Surface Preparation, Clean up, Coating, Ink, Paint Removal	N	
8-1-321	Closed Containers for Spent or Fresh Organic Solvents	N	
BAAQMD Regulation 8 Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/2002)		
8-16-114	Exemption, Emulsion or Solution Cleaners exempt from Regulation 8-16	Y	
8-16-118	Limited Exemption, Compounds with Low Volatility		
8-16-118.2	Limited Exemption, Compounds with Low Volatility; Cold Cleaners exempt from 8-16-303.4	Y	
8-16-124	Limited Exemption, Low VOC Cleaning Operations – No 8-16-501 records required for 8-16-303.5.1 Cold Cleaners	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	Cold Cleaner Requirements; General Operating Requirements	Y	
8-16-303.2	Cold Cleaner Requirements; Cold Cleaner Operating Requirements	Y	
8-16-303.3	Cold Cleaner Requirements; General Equipment Requirements	Y	

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Table IV – J.5W
Source-specific Applicable Requirements
~~S858-COLD CLEANER, S860-COLD CLEANER, S861-COLD CLEANER, AUTO SHOP~~
S1455-COLD CLEANER, AUTO SHOP
S1456-COLD CLEANER, S1457-COLD CLEANER, COMPRESSOR SHOP
S1458-COLD CLEANER
S1543, S1544, S1545, S1546, S1547, S1548
MAINTENANCE SHOPS EXEMPT COLD CLEANERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-16-303.5	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements	Y	
8-16-303.5.1	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content <= 50 g/l	Y	
8-16-303.5.2	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VMS cleaning solution - VMS	Y	
8-16-303.5.3	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content <= 50 g/l in non-VMS portion	Y	
8-16-502	Burden of Proof	Y	
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (9/16/98)		
8-16-118	Limited Exemption, Compounds of Low Volatility	N	
8-16-303	Cold Cleaner Requirements	Y/N	
8-16-303.1	General Operating Requirements	Y/N	
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	
8-16-303.1.4(b)	On-site Waste Treatment	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	Y	
8-16-303.3.1	Container	Y	

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Table IV – J.5W

Source-specific Applicable Requirements

~~S858-COLD CLEANER, S860-COLD CLEANER, S861-COLD CLEANER, AUTO SHOP~~

~~S1455-COLD CLEANER, AUTO SHOP~~

~~S1456-COLD CLEANER, S1457-COLD CLEANER, COMPRESSOR SHOP~~

~~S1458-COLD CLEANER~~

S1543, S1544, S1545, S1546, S1547, S1548

MAINTENANCE SHOPS EXEMPT COLD CLEANERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-16-303.4	Cold Cleaner Requirements	N	
8-16-303.4.1	Freeboard ratio requirement	N	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide Annual Solvent Usage Records	N	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.4	Monthly Records of Type and Amount of Solvents for Solvent Vapor Dryers and Enclosed Solvent Cleaners	N	
8-16-501.5	Records Retained for Previous 24 Month Period	N	
SIP Regulation 8, Rule 16	Organic Compounds—Solvent Cleaning Operations (6/15/94)		
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
8-16-303.1.4(b)	On-site Waste Treatment	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.4	Cold Cleaner Requirements	Y	
8-16-303.4.1	Freeboard ratio requirement	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Quarterly Solvent Usage Records	Y	

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Table IV – J.5W

Source-specific Applicable Requirements

~~S858-COLD CLEANER, S860-COLD CLEANER, S861-COLD CLEANER, AUTO SHOP~~
S1455-COLD CLEANER, AUTO SHOP
S1456-COLD CLEANER, S1457-COLD CLEANER, COMPRESSOR SHOP
S1458-COLD CLEANER
S1543, S1544, S1545, S1546, S1547, S1548
MAINTENANCE SHOPS EXEMPT COLD CLEANERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 16729			
Part 1	Annual solvent usage limitation (basis: cumulative increase, toxics)	Y	
Part 2	Limitations on the use of materials other than Safety Kleen 105 Solvent (basis: cumulative increase, toxics)	Y	
Part 3	Record-keeping (basis: cumulative increase, toxics)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – J.6H

Source-specific Applicable Requirements

S590-DEA FLASH DRUM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Condition # 7405			
Part 1	Completed. Fugitive emissions limit adjusted to 14.1 lb/day Deleted	Y	
Part 2	Deleted. (Redundant with Regulation 8, Rule 18) Fugitive Component Inspection and Maintenance Program and Leak Standards (basis: cumulative increase, toxics, Regulation 8-18, Regulation 8-25, Regulation 8-25, Regulation 8-28)	Y	

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Table IV – J.6H
Source-specific Applicable Requirements
S590-DEA FLASH DRUM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
Part 3	Deleted. (Redundant with Regulation 8, Rule 28) Requirement for Pressure Relief Valves to Vent to Flare (basis: cumulative increase, Regulation 8-28)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – J.7V
Source-specific Applicable Requirements
S825-DEA REGENERATOR, S856-SPARE DEA STRIPPER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations (<u>7/20/2005/15/94</u>)	Y	
<u>8-2-101</u>	<u>Description, Applicability</u>	<u>Y</u>	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

Table IV – Wa
Source-specific Applicable Requirements
S863-LPG VAPORIZER SYSTEM
Out of Service

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 799			
Part 1	Prohibition against simultaneous operation of S-863 and the LPG vaporizer located at #5 gas plant. (basis: cumulative increase)	Y	
Part 2	Limitation on the use of flare to abate S863 only in the event of an emergency. (basis: cumulative increase)	Y	
BAAQMD Condition # 19528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

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SECTION K - ABATEMENT

Table IV – ~~Xb~~K.1
Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90)(12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	<u>N</u>	
6-1-305	Visible Particles	<u>N</u>	
6-1-310	Particulate Weight Limitation	<u>N</u>	
6-1-310.3	Heat transfer operations	<u>N</u>	
6-1-401	Appearance of Emissions	<u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	<u>Y</u>	
6-305	Visible Particles	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-310.3	Heat transfer operations	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (09/14/2004)		
8-8-101	Description, applicability	<u>N</u>	
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min) (S-819 - OWS)	<u>Y</u>	
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight (S-819 - OWS)	<u>N</u>	
8-8-302.6	Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)	<u>N</u>	
8-8-307	Air flotation unit greater than 25.2 liters per second (400 gal/min) (S-819 – DNF System)	<u>Y</u>	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. (S-819 – DNF System)	<u>N</u>	

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Table IV – ~~Xb~~K.1
Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD SIP Regulation 8 Rule 8	<u>Organic Compounds - Wastewater (Oil-Water) Separators (6/15/94/08/29/1994)</u>		
8-8-101	Description, applicability	Y	
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min)		
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight. <u>(S-819 OWS)</u>	Y	
8-8-307	Air flotation unit greater than 25.2 liters per second (400 gal/min) with		
8-8-307.1	Solid, gasketed, fixed cover enclosing the unit. Visual inspections. OR	Y	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. <u>(S-819 DNF System)</u>	Y	
40 CFR Part 60 Subpart A	General Provisions	Y	
60.18	General control device requirements	Y	
NSPS Title 40 Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (08/17/1989)		
40 CFR 60.18(e)(1)	Limitation on visible emissions	Y	
40 CFR 60.18(e)(2)	Requirement for a flame to be present at all times	Y	
40 CFR 60.18(e)(2)	Requirement to meet heat content specification or maximum tip velocity specification	Y	
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.101(d)	Fuel Gas Definition: Excludes vapors that are collected and combusted to comply with the wastewater provisions in §60.692		
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	

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Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Fuel gas H ₂ S concentration limited to 230 mg/dsem (0.10 gr/dsef) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	N	
40 CFR Part 63 Subpart A	General Provisions	Y	06/01/03
63.11	Control device requirements	N	
40 CFR 60 Subpart QQQ	<u>NSPS - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (10/17/2000) Requirements for Control Devices</u>		
60.690	<u>Applicability and designation of affected facility</u>	Y	
60.690(a)(1)	<u>Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987</u>	Y	
60.690(a)(4)	<u>An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]</u>	Y	
60.691	<u>Definitions</u>	Y	
60.692-1	<u>Standards: General</u>	Y	
60.692-1(a)	<u>Standards: General; Comply except during periods of startup, shutdown, or malfunction</u>	Y	
60.692-1(b)	<u>Standards: General; Determination of compliance</u>	Y	
60.692-1(c)	<u>Standards: General; Alternative means of compliance</u>	Y	
60.692-1(d)	<u>Standards: General; Exemptions</u>	Y	
60.692-3	<u>Standards: Oil-water separators.</u>	Y	
60.692-3(a)	<u>Standards: Oil-water separators; Fixed roof required</u>	Y	
60.692-3(a)(2)	<u>Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device</u>	Y	
60.692-3(b)	<u>Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.</u>	Y	
60.692-4	<u>Standards: Aggregate facility</u>	Y	
60.692-5	<u>Standards: Closed vent systems and control devices</u>	Y	
60.692-5(a)	<u>Standards: Closed vent systems and control devices; enclosed combustion devices must provide 95% abatement of VOCs or meet residence time and minimum operating temperature (0.75 seconds at 1500 F) (applies to A39 thermal oxidizer)</u>	Y	
60.692-5(d)	<u>Standards: Closed vent systems and control devices; operate at all times</u>	Y	

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Table IV – ~~Xb~~K.1
Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-5(e)(1)	Standards: Closed vent systems and control devices; no detectable emissions	<u>Y</u>	
60.692-5(e)(2)	Standards: Closed vent systems and control devices; purge closed vent system to control device	<u>Y</u>	
60.692-5(e)(3)	Standards: Closed vent systems and control devices; flow indicator required on vent stream to control device	<u>Y</u>	
60.692-5(e)(4)	Standards: Closed vent systems and control devices; sampling and gauging devices gas tight	<u>Y</u>	
60.692-5(e)(5)	Standards: Closed vent systems and control devices; detectable emissions – first efforts at repair	<u>Y</u>	
60.692-6	Standards: Delay of Repair	<u>Y</u>	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	<u>Y</u>	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	<u>Y</u>	
60.695	Monitoring of Operations	<u>Y</u>	
60.695(a)	Monitoring of Operations; control device monitoring requirements	<u>Y</u>	
60.695(a)(1)	Monitoring of Operations; control device monitoring requirements – thermal oxidizer temperature monitoring device [applies to A39]	<u>Y</u>	
60.696	Performance test methods and procedures and compliance provisions	<u>Y</u>	
60.696(a)	Performance test methods and procedures and compliance provisions; initial inspection	<u>Y</u>	
60.696(b)	Performance test methods and procedures and compliance provisions; measure no detectable emissions with Method 21 and exemption from 60.8	<u>Y</u>	
60.697	Recordkeeping requirements	<u>Y</u>	
60.697(a)	Recordkeeping requirements; retention	<u>Y</u>	
60.697(d)	Recordkeeping requirements; closed vent system inspection records	<u>Y</u>	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	<u>Y</u>	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	<u>Y</u>	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	<u>Y</u>	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	<u>Y</u>	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	<u>Y</u>	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	<u>Y</u>	
60.697(f)(3)	Recordkeeping requirements; closed vent system records	<u>Y</u>	
60.697(f)(3)(i)	Recordkeeping requirements; closed vent system records; control	<u>Y</u>	

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Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
)	efficiency demonstration		
60.697(f)(3)(i ii)	Recordkeeping requirements; closed vent system records; periods when not operated as designed	<u>Y</u>	
60.697(f)(3)(i v)	Recordkeeping requirements; closed vent system records; startup and shutdown of control device	<u>Y</u>	
60.697(f)(3)(v)	Recordkeeping requirements; no detectable emissions records	<u>Y</u>	
60.697(f)(3)(v i)	Recordkeeping requirements; no detectable emissions records	<u>Y</u>	
60.697(f)(3)(v ii)	Recordkeeping requirements; no detectable emissions records	<u>Y</u>	
60.697(f)(3)(v iii)	Recordkeeping requirements; control device; thermal oxidizer	<u>Y</u>	
60.698	Reporting requirements	<u>Y</u>	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	<u>Y</u>	
60.698(d)	Reporting requirements; semiannual report	<u>Y</u>	
60.698(d)(1)	Reporting requirements; semiannual report; thermal oxidizer combustion zone temperature moere than 50 F below design [applies to A39]	<u>Y</u>	
	NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams		

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Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability	<u>Y</u>	
	Applicability – wastewater steams associated with petroleum refining process units	<u>Y</u>	
	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	<u>Y</u>	

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Table IV – ~~Xb~~K.1
Source-specific Applicable Requirements
A39 API/DNF THERMAL OXIDIZER
ABATES S819 AND S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Definitions	<u>Y</u>	
BAAQMD Condition #4587			
Part 5	Non-methane hydrocarbon emissions from A-39 shall not exceed 10 ppm on a rolling one-hour average basis.		
Part 7	H2S emissions from A-39 shall not exceed 1 ppm.		
<u>BAAQMD Condition 7406</u>			
Part A1	S-819 Enclosure requirement and abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	<u>Y</u>	
Part B1	Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	<u>Y</u>	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	<u>Y</u>	
Part B5.A	A39 Non-methane hydrocarbon emissions shall not exceed 10 ppm on a rolling one-hour average basis (basis: BACT, offsets, cumulative increase)	<u>Y</u>	
Part B7	A39 H2S emissions shall not exceed 1 ppm. (basis: toxics)	<u>Y</u>	
Part B10	A39 Minimum temperature (basis: cumulative increase, offsets, toxics)	<u>Y</u>	
Part B11	A39 Install, maintain, and operate continuous temperature monitor/recorder (Basis: BACT, offsets, cumulative increase)	<u>Y</u>	
Part B12	Recordkeeping (basis: cumulative increase, BACT, offsets, toxics)	<u>Y</u>	

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Table IV – ~~XeK~~.2
Source-specific Applicable Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,
A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,
A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90)(12/05/2007)		
6-1-301	Ringelmann Number 1 Limitation	<u>N</u>	
6-1-305	Visible Particles	<u>N</u>	
6-1-310	Particulate Weight Limitation	<u>N</u>	
6-1-310.3	<u>Heat Transfer Operations</u>	<u>N</u>	
6-1-401	Appearance of Emissions	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann Number 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-310.3	<u>Heat Transfer Operations</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 12 Rule 11	<u>Flare Monitoring at Petroleum Refineries (06/04/2003)</u>		
12-11-113	<u>Exemption, Pumps</u>	<u>N</u>	
BAAQMD Regulation 12 Rule 12	<u>Flares at Petroleum Refineries (04/05/2006)</u>		
12-12-113	<u>Exemption, Pumps</u>	<u>N</u>	
BAAQMD Manual of Procedures, Volume V	<u>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</u>	<u>N</u>	

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Table IV – ~~XeK~~₂
Source-specific Applicable Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,
A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,
A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart A	General Provisions	Y	
60.18	General control device requirements	Y	
NSPS Title 40 Part CFR 60 Subpart J	NSPS Subpart J Standards of Performance for Petroleum Refineries (06/24/2008) (08/17/1989)		
40 CFR 60.18(c)(1)	Limitation on visible emissions	Y	
40 CFR 60.18(c)(2)	Requirement for a flame to be present at all times	Y	
40 CFR 60.18(c)(2)	Requirement to meet heat content specification or maximum tip velocity specification	Y	
40 CFR 60.100(a)	Applicability: <u>FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)</u> Claus Sulfur Recovery Plants, FCCU-Catlayst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries	Y	
40 CFR 60.100(b)	Applicability: <u>Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007</u>	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)	<u>Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H2S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions. 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</u>	Y	

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Table IV – ~~XeK~~.2
Source-specific Applicable Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,
A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,
A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
<u>60.105(a)(4)</u>	<u>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))</u>	<u>Y</u>	
<u>60.105(a)(4)(iv)</u>	<u>Exemption from 60.105 (a)(3) or (a)(4) for fuel gas streams that are exempt under §60.104(a)(1) and fuel gas streams that are inherently low in sulfur content per 60.105(a)(4)(iv)(A) through (D). On loss of exemption, monitoring per 60.105(a)(3) or (4) must begin within 15 days of the change.</u>	<u>Y</u>	
<u>60.105(a)(4)(iv)(B)</u>	<u>Fuel gas streams that meet a commercial-grade product specification for sulfur content of 30 ppmv or less are considered to be inherently low in sulfur.</u>	<u>Y</u>	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(e)</u>	<u>Keep records of the specific 60.105(a)(4)(iv) exemption chosen for each fuel gas stream. Keep copy of the application for the exemption described in §60.105(a)(4)(iv)(D), as well as the letter from the Administrator granting approval of the application.</u>	<u>Y</u>	
40 CFR Part 63 Subpart A	General Provisions	<u>Y</u>	<u>06/01/03</u>
63.11	Control device requirements	<u>Y</u>	
BAAQMD Condition #11609	<u>Section A applies to A40 only</u> <u>Section C applies to A42 only</u> <u>Section D applies to A43 only</u>		
Part A1	A-40 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F	<u>Y</u>	
Part A2	A-40 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, toxics).	<u>Y</u>	
Part A3	Initial Source Test Requirement (basis: cumulative increase, toxics)	<u>Y</u>	
Part A4	A-40 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-40. Total number of pumps connected to A-40 not to exceed 20.	<u>Y</u>	

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Table IV – ~~XeK~~.2
Source-specific Applicable Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,
A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,
A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A5	A-40 only: Shall record date and time pump seal vapors are abated by A-40. Monitor twice daily and record operating temperature of A-40.	Y	
Part C1	A-42 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence t time, and minimum operating temperature of 1400F.	Y	
Part C2	A-42 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, offsets).	Y	
Part C3	Initial Source Test Requirement (basis: cumulative increase, toxics)	Y	
Part C4	A-42 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-42. Total number of pumps connected to A-42 not to exceed 20.	Y	
Part C5	A-42 only: Shall record date and time pump seal vapors are abated by A-42. Monitor twice daily and record operating temperature of A-42.	Y	
Part D1	A-43 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence t time, and minimum operating temperature of 1400F.	Y	
Part D2	A-43 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, offsets).	Y	
Part D3	Initial Source Test Requirement (basis: cumulative increase, toxics)	Y	
Part D4	A-43 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-43. Total number of pumps connected to A-43 not to exceed 20.	Y	
Part D5	A-43 only: Shall record date and time pump seal vapors are abated by A-43. Monitor twice daily and record operating temperature of A-43.	Y	

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SECTION L - REMEDIATION

**Table IV – ~~AY-L.1~~ – Remediation
 Source-specific Applicable Requirements**

**~~S1452-OIL WATER SEPARATOR, HYDROCARBON RECOVERY SYSTEM, GROUNDWATER GROUNDWATER~~
~~HYDROCARBON RECOVERY SYSTEM WITH, 43-47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT~~
~~HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart GGGGG	<u>NESHAPS for Source Categories - Site Remediation (11/29/2006)</u>		
63.7880	<u>Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations</u>	<u>Y</u>	
63.7882	<u>Applicability: Affected sources</u>	<u>Y</u>	
63.7882(a)	<u>Applicability: Affected sources; new, reconstructed, or existing sources</u>	<u>Y</u>	
63.7882(a)(3)	<u>Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents</u>	<u>Y</u>	
63.7882(a)(3)	<u>Affected Source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)</u>	<u>Y</u>	
63.7882(a)(3)(i)	<u>Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight</u>	<u>Y</u>	
63.7882(a)(3)(ii)	<u>Equipment leaks in components operated more than 300 hours in calendar year</u>	<u>Y</u>	
63.7882(b)	<u>Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002</u>	<u>Y</u>	
63.7882(c)	<u>Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002</u>	<u>Y</u>	
63.7883	<u>Compliance Schedule</u>	<u>Y</u>	
63.7883(a)	<u>Compliance Schedule: Existing sources</u>	<u>Y</u>	
63.7883(b)	<u>Compliance Schedule: New sources (non-radioactive)</u>	<u>Y</u>	
63.7883(e)	<u>Compliance Schedule: Notification requirements</u>	<u>Y</u>	
63.7884	<u>General Standards</u>	<u>Y</u>	
63.7884(a)	<u>General Standards – comply with 63.7885 through 63.7955 as they apply to the affected sources</u>	<u>Y</u>	
63.7886	<u>Remediation Material Management Units – General Standards</u>	<u>Y</u>	
63.7886(a)	<u>Select option and meet requirements of option selected</u>	<u>Y</u>	
63.7886(b)	<u>Options</u>	<u>Y</u>	

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**Table IV – ~~AY-L.1~~ – Remediation
 Source-specific Applicable Requirements**

**~~S1452-OIL WATER SEPARATOR, HYDROCARBON RECOVERY SYSTEM, GROUNDWATER GROUNDWATER~~
 HYDROCARBON RECOVERY SYSTEM WITH, 43-47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT
HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	<u>Y</u>	
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	<u>Y</u>	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	<u>Y</u>	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	<u>Y</u>	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	<u>Y</u>	
63.7886(d)(1)	Designate exempt units and submit written notification	<u>Y</u>	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	<u>Y</u>	
63.7887	Equipment Leaks – General Requirements	<u>Y</u>	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	<u>Y</u>	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	<u>Y</u>	
63.7915	Transfer system emission limitations and work practice standards	<u>Y</u>	
63.7915(a)	Transfer system - comply with requirements for specific system	<u>Y</u>	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	<u>Y</u>	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	<u>Y</u>	
63.7916	Transfer system – Initial Compliance	<u>Y</u>	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	<u>Y</u>	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	<u>Y</u>	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	<u>Y</u>	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	<u>Y</u>	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	<u>Y</u>	

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**Table IV – ~~AY-L.1~~ – Remediation
 Source-specific Applicable Requirements**

**~~S1452-OIL WATER SEPARATOR, HYDROCARBON RECOVERY SYSTEM, GROUNDWATER GROUNDWATER~~
 HYDROCARBON RECOVERY SYSTEM WITH, 43-47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT
HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>63.7917(c)</u>	<u>Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.</u>	<u>Y</u>	
<u>63.7917(e)</u>	<u>Transfer system – continuous hard piping – repair of defects</u>	<u>Y</u>	
<u>63.7917(e)(1)</u>	<u>First attempt at repairs</u>	<u>Y</u>	
<u>63.7917(e)(2)</u>	<u>Delay of repair</u>	<u>Y</u>	
<u>63.7917(e)(3)</u>	<u>Records – delay of repair</u>	<u>Y</u>	
<u>63.7918</u>	<u>Transfer system – Continuous Compliance</u>	<u>Y</u>	
<u>63.7918(a)</u>	<u>Transfer system – Continuous Compliance - comply with requirements for specific system</u>	<u>Y</u>	
<u>63.7918(d)</u>	<u>Transfer system – continuous hard piping – continuous compliance</u>	<u>Y</u>	
<u>63.7918(d)(1)</u>	<u>Operation and maintenance</u>	<u>Y</u>	
<u>63.7918(d)(2)</u>	<u>Annual inspection</u>	<u>Y</u>	
<u>63.7918(d)(3)</u>	<u>Repair of defects</u>	<u>Y</u>	
<u>63.7918(d)(4)</u>	<u>Records of compliance</u>	<u>Y</u>	
<u>63.7935</u>	<u>General Compliance Requirements</u>	<u>Y</u>	
<u>63.7935(a)</u>	<u>Comply at all times except during periods of startup, shutdown, and malfunction</u>	<u>Y</u>	
<u>63.7935(b)</u>	<u>Comply with 63.6(e)(1)(i)</u>	<u>Y</u>	
<u>63.7935(c)</u>	<u>Develop a written SSMP per 63.6(e)(3)</u>	<u>Y</u>	
<u>63.7935(e)</u>	<u>Report each non-compliance (deviation) including startup, shutdown, and malfunction</u>	<u>Y</u>	
<u>63.7935(f)</u>	<u>Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction</u>	<u>Y</u>	
<u>63.7936</u>	<u>Requirements to transfer remediation material off-site to another facility</u>	<u>Y</u>	
<u>63.7937</u>	<u>General Standards – Initial Compliance</u>	<u>Y</u>	
<u>63.7938</u>	<u>General Standards – Continuous Compliance</u>	<u>Y</u>	
<u>63.7940</u>	<u>Initial Compliance Demonstrations – Compliance Schedule</u>	<u>Y</u>	
<u>63.7940(b)</u>	<u>Requirements for existing sources without performance tests or design evaluations</u>	<u>Y</u>	
<u>63.7940(c)</u>	<u>Requirements for new sources</u>	<u>Y</u>	
<u>63.7941</u>	<u>Initial Compliance Demonstration - Methods</u>	<u>Y</u>	
<u>63.7941(a)</u>	<u>Initial Compliance Demonstration – comply with applicable methods for affected sources</u>	<u>Y</u>	

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Table IV – ~~AY-L.1~~ – Remediation
Source-specific Applicable Requirements

**~~S1452-OIL-WATER SEPARATOR, HYDROCARBON RECOVERY SYSTEM, GROUNDWATER-GROUNDWATER~~
 HYDROCARBON RECOVERY SYSTEM WITH, 43-47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT
HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7941(g)	Requirements for visual inspections of affected sources	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(c)	Records: Continuous compliance demonstration records for all applicable requirements	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
BAAQMD Condition # 9875			

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**Table IV – ~~AY-L.1~~ – Remediation
 Source-specific Applicable Requirements**

**~~S1452-OIL WATER SEPARATOR, HYDROCARBON RECOVERY SYSTEM, GROUNDWATER GROUNDWATER~~
 HYDROCARBON RECOVERY SYSTEM WITH, 43-47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT
HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Inspection Requirements & Leak Limits For Fugitive Components (basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25)	Y	
Part 2	Pump Technology Requirements (basis: cumulative increase, offsets, BACT)	Y	
Part 3	Light Liquid Service Valve Technology Requirements (basis: cumulative increase, offsets, BACT)	Y	
Part 4	Heavy Liquid Service Valve Technology Requirements (basis: cumulative increase, offsets, BACT)	Y	
Part 5	Final Fugitive Component Count Requirement (basis: cumulative increase, offsets)	Y	
Part 6	Throughput limit of 5,000,000 bbl/yr (basis: cumulative increase, offsets)	Y	
BAAQMD Condition # 49528			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, Regulation 2-1-403 Regulation 2-6-503)	Y	

V. SCHEDULE OF COMPLIANCE

A. Standard 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.

B. Custom Schedule of Compliance

~~The facility is currently engaging in an ongoing pattern of recurring violations of various District regulations as a result of emissions of flue gas from its Coker, S-806. The District has opted to pursue the matter by petitioning the District's Hearing Board for a conditional order for abatement to require Tesoro to address this Problem (Docket No. 3492). The Hearing Board approved a Second Stipulated Conditional Order for Abatement on December 21, 2005. The Second Stipulated Conditional Order for Abatement, in Appendix E, contains the "schedule of remedial measures, including an enforceable sequence of actions with milestones" which will lead to compliance and "a schedule of certified progress reports with no less frequency than every 6 months" as required by 40 C.F.R. § 70.5(e).~~

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Any condition that is preceded by an asterisk is not federally enforceable.

Condition # 267

S1401 Sulfur Recovery Unit

S1405 Sulfur Collection Pit

~~S1420 Tail Gas In-Line Burner~~

Application 14374(September 2006)– Sulfur Pit Vent (S1405) reroute and abatement requirements

Application 15949 (May 2007): Add EPA Consent Decree requirements (Case No. SA-05-CA-0569-RF: United States of America v. Valero Refining Company – California, et. al.).

Modified by Application 16798 (November 2007). Added Part 4b.

Application 17913 (May 2009). Delete S1420 (which is part of A1402 SCOT Unit)

1. Permittee/Owner/Operator shall ensure that the SCOT unit is scheduled for maintenance to coincide with the turnaround of either the Coker or the FCCU. (basis: cumulative increase)
2. Permittee/Owner/Operator shall ensure that the sulfur dioxide (SO₂) emission rate does not exceed 4 lb/ton of sulfur processed. (basis: cumulative increase)
3. In a District approved log, Permittee/Owner/Operator shall record daily SO₂ emissions and sulfur production on a monthly basis. The District approved log shall retained on site for not less than 5 years from date of last entry and it shall be made available to the District staff upon request. (basis: cumulative increase)
- 4a. Permittee/Owner/Operator shall abate the Sulfur Collection Pit (S-1405) by either the Sulfuric Acid Plant (SAP) (S-1411) or the Sulfur Recovery Unit (SRU) (S-1401) when-ever S-1405 is being filled with sulfur or when S-1401 is in operation. (basis: cumulative increase)
- 4b. Until April 1, 2008, if S-1411 is shutdown, the Owner/Operator may temporarily route S-1405 emissions to the S-1401 SRU stack. During this temporary operation, all S-1405 emissions must be included in the S-1401 emissions that are monitored for SO₂ emissions compliance with NSPS Subpart J. (Basis: EPA consent decree, paragraph 226)
5. The S-1401 Sulfur Recovery Unit is an “affected facility” under 40 CFR 60 Subpart J. The owner/operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for Sulfur Recovery Units and shall monitor and report in accordance with 40 CFR 60.7, 60.13, and 60.105 for all emission points (stacks) to the atmosphere for tail gas emissions except during periods of startup, shutdown or

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malfunction of the S-1401 Sulfur Recovery Unit or during malfunction of the A-1402 SCOT tail gas unit/incinerator. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 221, 222, 224, 225, and 227)

~~Condition # 573~~

- ~~Application #7381;~~
- ~~Amended by Application #16484;~~
- ~~Amended by Application #8301~~

S903 No. 5 Boiler

- ~~1. Permittee/Owner/Operator shall ensure that only specification grade ammonia (no "Off-Spec") is used for injection into the Coker CO Boiler S-903. For the purposes of this permit, "off-spec" ammonia is ammonia which contains 20 ppm by weight or higher of either hydrocarbon, H₂S, or Mercaptans. (basis: toxics)~~
- ~~2. If the APCO determines that ammonia in the stack exhaust in excess of 40 ppm by volume results in a health hazard or excess visible emissions, Permittee/Owner/Operator shall ensure that the ammonia in the stack exhaust does not exceed 40 ppm by volume. (basis: toxics)~~
- ~~3. Permittee/Owner/Operator shall determine the relationship between NO_x reduction and ammonia slippage and shall operate the ammonia injection system in such a way as to minimize slippage while maximizing NO_x reduction. (basis: toxics)~~
- ~~4. Permittee/Owner/Operator shall ensure that the ammonia injection rate shall not exceed 475 lb/hr. (basis: toxics)~~
- ~~5. Deleted obsolete condition.~~
- ~~6. Permittee/Owner/Operator shall ensure that daily records of the ammonia usage, temperature, and stack NO_x are maintained in a District approved log and that monthly summaries are submitted to the District. The District approved log shall retained on site for not less than 5 years from date of last entry and it shall be made available to the District staff upon request. (basis: toxics)~~
- ~~7. Deleted. Condition requirements completed.~~
- ~~8. Deleted. Condition requirements completed.~~

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9. ~~In the event the APCO determines that the stack opacity is in excess of District Regulations, Permittee/Owner/Operator shall immediately curtail use of the ammonia injection to the extent required to abate the excessive emissions. (basis: Regulation 6-302)~~
- 9a. ~~Effective June 1, 2004, Permittee/Owner/Operator shall install a continuous opacity monitor to ensure that the emission is not greater than 20% opacity for a period or periods aggregating more than three minutes in any hour when the boiler is burning coker flue gas. (basis: Regulation 6-302)~~
10. ~~Permittee/Owner/Operator shall inform the District when any additional tests are performed to evaluate the ammonia injection system. (basis: cumulative increase)~~
11. ~~Permittee/Owner/Operator shall ensure that only "Super Cat Manganese 6 High Flash" (Nuodex Solution) or chemical equivalent is injected as a combustion enhancer/ESP flyash conditioner upstream of the Coker CO Boiler S-903. (basis: cumulative increase)~~
12. ~~Permittee/Owner/Operator shall ensure that during each calendar day, the total usage of KI 75, KI 85, and Nuodex combined does not exceed 660 gallons per day. During each calendar day that neither KI 75 nor KI 85 is used at S-903, Permittee/Owner/Operator shall ensure that the total usage of Nuodex at S-903 does not exceed 1000 gallons per day. (basis: cumulative increase)~~
13. ~~In order to demonstrate compliance with condition #12, Permittee/Owner/Operator shall maintain daily records in a District approved log to indicate the total number of gallons of Nuodex Solution, KI 75, KI 85 (or chemical equivalent) injected/used at S-903 each calendar day. These records shall be kept on site and be available for inspection by District personnel for a period of 60 months from the date on which a record is made. (basis: cumulative increase)~~
14. ~~S-903, boiler #5 shall burn only gaseous fuels. (basis: cumulative increase)~~

Condition # 677

S937 Hydrogen Plant Heater

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

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1. Permittee/Owner/Operator shall ensure that the mass emissions of nitrogen oxides (NOx), calculated as NO₂, from furnace, S-937 do not exceed 1430 lb/stream day or 1089 lb/calendar day. (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)
2. Permittee/Owner/Operator shall install, calibrate, maintain and operate nitrogen oxides and oxygen analyzers in accordance with the District's Manual of Procedures.
(basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)
3. ~~Deleted. (Recordkeeping requirements of Regulation 9-10-504 are more stringent.)~~
~~Permittee/Owner/Operator shall record the following parameters for furnace, S-937:~~
 - ~~a. daily fuel gas usage~~
 - ~~b. NOx concentration and~~
 - ~~c. oxygen concentration~~

~~The records shall be maintained in a District approved log for at least five years from date of last entry and it shall be available to the District upon request. (basis: cumulative increase)~~

Condition # 799

~~S863 LPG Vaporizer System~~

- ~~1. Permittee/Owner/Operator shall ensure that S863 is not be operated simultaneously with the LPG vaporizer located at #5 gas plant. (basis: cumulative increase)~~
- ~~2. Permittee/Owner/Operator shall ensure that, in the abatement of S863, the flare shall be operated only for emergency purposes. (basis: cumulative increase)~~

Condition # 878

S100 Avon Wharf Loading Berth No. 1

1. When calculating hydrocarbon emissions from vessel or barge loading, the Permittee/Owner/Operator shall use the emission factors presented in condition number 5 of condition ID #878. (basis: cumulative increase)
2. Permittee/Owner/Operator shall install and maintain a Pressure Recorder/Controller in the vapor recovery system to provide a permanent record of pressure during the

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loading of vessels. These records shall be maintained for a minimum of 5 years.
(basis: cumulative increase)

3. Not less frequently than every six months, Permittee/Owner/Operator shall conduct tests to assess leakage from all relief valves that vent to atmosphere in the marine vapor recovery system on a semi-annual basis.

Permittee/Owner/Operator shall ensure that the testing and record keeping are done in compliance with Regulation 8, Rule 18.

(basis: cumulative increase, Regulation 8-18)

4. If leakage is detected during the loading of a vessel, or if the vapor recovery system is shutdown for any period of time during loading, or if a relief valve in the recovery system vents to atmosphere during loading, Permittee/Owner/Operator shall use the "Non-Vapor Recovery" emission factors in condition number 5 of condition ID #878 to calculate emissions from the entire loading operation. Credit for vapor recovery may be given for a portion of a vessel loading operation, provided that Permittee/Owner/Operator can provide documentation to the satisfaction of the APCO that credit is appropriate, as determined by the APCO.
(basis: cumulative increase)

5. DATA FOR DETERMINING EMISSIONS FROM MARINE ACTIVITY

Described herein are the following lists of fuel usage rates and emission factors for calculating marine activity emissions

- Part B-1 Tanker Fuel Usage Rates
- Part B-2 Diesel Fuel Used During Barge Unloading
- Part B-3 Tug Usages
- Part B-4 Fuel Combustion Emission Factors
- Part B-5 Hydrocarbon Emissions from Onloading of Crude Oil, Ballast or Products

The methodology, assumptions, and procedures to be used in calculating the emissions shall be consistent with those set forth in Permittee/Owner/Operator's submittal entitled, "Procedures for Determining Emissions from Marine Activity," dated 10/30/81.

Calculated emissions shall be reported in units of short tons (2,000 lbs avoir du pois) rounded to three (3) significant figures.

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PART B-1: TANKER FUEL RATES

Tanker Deadweight Tonnage (10000 tons)	(A) Main Engine Type	(B) Engine Fuel Type	(C) Engine Fuel Use (bbl/hr)	(D) Unloading Rate (bbl/hr)	(D) Boiler Fuel Use For Unloading (bbl/hr)	Hoteling Fuel Use Fuel Oil (bbl/hr)	Hoteling Fuel Use Diesel (bbl/hr)
< 2	ST	F	5.0	6,000	7.0	1	0
	MT	D	2.5	6,000	7.0	1	1
2 to < 3	ST	F	8.1	8,000	9.5	1	0
	MT	D	5.6	8,000	9.5	1	1
3 to < 4	ST	F	9.4	10,000	11.5	1	0
	MT	D	6.9	10,000	11.5	1	1
4 to < 5	ST	F	10.9	12,000	13.5	1	0
	MT	D	8.1	12,000	13.5	1	1
5 to < 6	ST	F	13.1	14,000	15.5	1	0
	MT	D	8.4	14,000	15.5	1	1
6 to < 8	ST	F	15.0	15,000	16.0	2	0
	MT	D	9.4	15,000	16.0	2	2
8 to < 10	ST	F	18.1	16,000	17.0	2	0
	MT	D	10.9	16,000	17.0	2	2
10 to < 14	ST	F	20.0	17,000	17.5	2	0
	MT	D	13.1	17,000	17.5	2	2
14 to < 18	ST	F	21.6	18,000	18.5	2	0
	MT	D	15.6	18,000	18.5	2	2
≥ 18	ST	F	22.5	19,000	19.5	3	0
	MT	D	19.1	19,000	19.5	3	3

Explanation of abbreviations for PART B-1:

Column A ST = steamship (steam boilers and turbines)
 MT = motorship (internal combustion engines)
 Column B F = fuel oil (not diesel fuel)

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- D = diesel oil
- Column C BBL/hr = barrels per hour of fuel use during transit (at 50% of full steaming)
- Column D During unloading of oil or ballast, steamships and motorships use fuel oil (F) for boilers/turbines which drive the unloading pumps

PART B-2: DIESEL FUEL USED DURING BARGE UNLOADING*

barge unloading rate (bbl/hr)	diesel fuel usage (bbl/hr)
2,000	2.3
2,200	2.4
2,500	2.9
3,500	4.1
8,000	9.5
10,000	11.5
13,000	13.5

- * Based on internal combustion engines driving the unloading pumps on the barges using the same kind of diesel as the tugs (i.e., 0.50 wt% sulfur and API gravity of 35)

PART B-3: TUG USAGES

One tug for assisting tankers of < 50,000 DWT size, for a total transit time of four hours per tanker call at docks.

Two tugs for assisting tankers of > 50,000 DWT size, for a total transit time of four hours each tug per tanker call at docks.

One tug for transporting barges or lighters, for a total transit time of ten hours per each barge/lighter call at docks.

Thus, for each call below:	Total tug transit hour
Tanker of < 50,000	4
Tanker of \geq 50,000	8
Product shipment barge	10
Crude oil lighter	10

PART B-4: FUEL COMBUSTION EMISSION FACTORS (pounds / 1,000 gallons of fuel burned *)

Boiler In Steamships: during transit	Fuel Type	*POC	*SO ₂	*NO _x	*CO	*PM ₁₀
	F	3.10	315.3	48.2	2.62	19.0

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during hoteling	F	3.10	315.3	20.9	2.62	19.0
during unloading	F	3.10	315.3	48.2	2.62	19.0

Internal Combustion

<u>Engines In Motorships:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO₂</u>	<u>*NO_x</u>	<u>*CO</u>	<u>*PM₁₀</u>
during transit	D	32.8	70.1	367.0	56.9	20.0
during hoteling	D	32.8	70.1	367.0	56.9	20.0

Internal Combustion

Engines in Motorships

<u>> or = 100,000 DWT:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO₂</u>	<u>*NO_x</u>	<u>*CO</u>	<u>*PM₁₀</u>
during transit	D	32.8	210.3	367.0	56.9	20.0
during hoteling	D	32.8	210.3	367.0	56.9	20.0

<u>Boilers In Motorships:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO₂</u>	<u>*NO_x</u>	<u>*CO</u>	<u>*PM₁₀</u>
during transit	F	3.10	315.3	20.9	2.62	19.0
during hoteling	F	3.10	315.3	48.2	2.62	19.0

Internal Combustion (IC):

<u>Engines In Tugs:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO₂</u>	<u>*NO_x</u>	<u>*CO</u>	<u>*PM₁₀</u>
during transit	TD	13.0	70.1	571.2	56.9	25.0

IC engines driving

barge unloading pumps	TD	13.0	70.1	571.2	56.9	25.0
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(PM-10 factor of 25 lb/1000 gallons also applies to internal combustion engines driving barge unloading pumps)

Explanation of abbreviations for PART B-4:

Fuel Type

F = fuel oil or residuum sulfur @ ≤ 2.0 wt%; nitrogen @ ≤ 0.43 wt%; API gravity 18

D = marine diesel sulfur @ ≤ 0.5 wt%; nitrogen @ ≤ 0.08 wt%; API gravity 35

TD = tug diesel sulfur @ ≤ 0.5 wt; API gravity @ 35

PART B-5: HYDROCARBON EMISSIONS FROM ONLOADING OF CRUDE OIL, BALLAST OR PRODUCTS

<u>COMMODITY</u> <u>ONLOADED</u>	<u>Non-Vapor Recovery</u> <u>POC Emissions</u> <u>(lb/1,000 gallons)</u>	<u>Vapor Recovery</u> <u>POC Emissions</u> <u>(lb/1,000 gallons)</u>
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Crude Oil:

Barges	1.7	0.034
Vessels	1.0	0.02
Ballast: (unsegregated***) Crude	0.7	0.014

VI. Permit Conditions

Gasoline:	Gasoline	1.6	0.032
	Barges	4.0	0.08
	Vessels	2.4	0.048
	Turbine Fuel (Jet Fuel)	0.005	0.0001
	Diesel Oil, Gas Oil, Conversion Feed, Cutter Stock, Catalytic Cracker Charge HDN Charge, Stove Oil, Solvents, Lubestocks, Middle Distillate Oil	0.005	0.0001
	Fuel Oil, Heavy Fuel Oil, Low Sulfur Oil, Bunkers IFO, LSFO, Residuum, Carbon Black, Purchased Cut Back Tar, Asphalt	4.0 E-05 8.0 E-07	4.0 E-05 8.0 E-07

*** The volume of unsegregated ballast taken on by a ship which has offloaded cargo is determined by the following equation:

$$B = 7.5 \times MDWT \times (0.35 - B \text{ segregated}/100)$$

Explanation of abbreviations for PART B-5:

- B = the volume of ballast into dirty cargo tanks in Mbbl
- MDWT = ship tonnage in thousands of dead weight tons as indicated by Clarkson
- B segregated = the percent of segregated or dedicated ballast for the ship as indicated by Clarkson or some other reliable source which is known to be more current; e.g., ship's records, where the percent is equal to or less than 35. If the percent is greater than 35 than the amount of unsegregated ballast will be zero.

Condition # 1910

S1007 Hydrocracker Unit 2nd Stage
 S1008 Hydrocracker Unit 1st Stage

PERMIT CONDITION 1910
 APPLICATION #548
 HYDROCRACKER EXPANSION PROJECT PERMIT CONDITIONS
 (S-1007) AND (S-1008)

VI. Permit Conditions

Application 15944 (May 2007): S-1007 Isocracker Unit: IIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Application 16850 (February 2008): S-1007 Isocracker Unit: HIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4. Leaks permanently repaired.

1. Deleted. (No pressure relief valves associated with this project vent to atmosphere) Permitter/Owner/Operator shall ensure that no pressure relief valve on a new vessel in hydrocarbon service, associated with this project, shall vent to atmosphere. (basis: cumulative increase, BACT)
2. Deleted. (Completed. All pumps and compressors have double mechanical seals with a barrier fluid, or equivalent, and all new compressors must meet applicable New Source Performance Standards.) Permitter/Owner/Operator shall ensure that each and all pumps and compressors, installed pursuant to permit application #548 associated with this project, have double mechanical seals with a barrier fluid, or equivalent, to ensure leakage in rather than out, or shall have seals vented to a closed system. All new compressors must meet applicable New Source Performance Standards. (basis: cumulative increase, NSPS)
3. Deleted (Completed. IIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown). Owner/operator shall inspect the HIR Compressor Leak Control Measure shroud/clamp for leaks on a monthly basis. (Regulation 8-18-401.9)
4. Deleted (Completed. HIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown). Owner/operator shall inspect the HIR Compressor Leak Control Measure shroud/clamp for leaks on a monthly basis. (Regulation 8-18-401.9)

Condition # 3996

S699 Tank A-699

APPLICATION # 2253 FOR SOURCE # 699

VI. Permit Conditions

Administratively Deleted by Application 21711 (May 2010)

1. Deleted. (Gas tight requirements are redundant with Regulation 8-5-307.)
~~Permittee/Owner/Operator shall ensure that all roof vents are closed with gas-tight covers. (basis: cumulative increase)~~
2. Completed. (Pressure Vacuum Valve set points are +/- 1.0" H2O).
~~Permittee/Owner/Operator shall ensure that the pressure/vacuum relief valve is gas-tight and maintained in proper working order at all times.
Permittee/Owner/Operator shall ensure that the pressure and vacuum set pressures shall be +1.0" H2O and -1.0" H2O, respectively. (basis: cumulative increase)~~
3. Completed. (Gas discharge regulator set point is +0.5" H2O).
~~Permittee/Owner/Operator shall ensure that the pressure regulator is open at a pressure no greater than 0.5" H2O to allow vapors to be collected. (basis: cumulative increase)~~
4. Completed. (Gas supply regulator set point is -0.5" H2O).
~~Permittee/Owner/Operator shall ensure that the vacuum regulator is open at a pressure no less than -0.5" H2O to allow repressuring gas to enter the tank vapor space. (basis: cumulative increase)~~

Condition # 4357

S848 FCCU Merox Unit	S936 Regeneration Gas Heater
S850 No. 3 HDS Unit	S937 Hydrogen Plant Heater
S901 No. 7 Boiler	S938 HDN Prefractionator Heater
S904 No. 6 Boiler	S952 Internal Combustion Engine
S908 No. 3 Crude Heater (F8)	S953 Internal Combustion Engine
S909 No. 1 Feed Prep Heater	S954 Internal Combustion Engine
S915 Platformer Intermediate Heater	S955 Internal Combustion Engine
S917 No. 1 HDS Prefract Reboiler	S956 Internal Combustion Engine
S923 Coker Auxiliary Startup Burner	S957 Internal Combustion Engine
S924 Coker Anti-Cook Superheater	S958 Internal Combustion Engine
S925 Coker Attriting Superheater	S959 Internal Combustion Engine
S928 No. 2 Reformer Heat/Reheating	S960 Internal Combustion Engine
S929 HDN Reactor B Heater	S963 Gas Turbine 177
S930 HDN Reactor C Heater	S971 No. 3 Reformer UOP Furnace
S931 Hydrocracker Reactor 1 Heater	S972 No. 3 Reformer Debut Reboiler
S932 Hydrocracker Reactor 2 Heater	S973 No. 3 HDS Recycle Gas Fract
S933 Hydrocracker Reactor 3 Heater	Feed Heater
S934 Hydrocracker Stabilizer Reboiler	S991 FCCU Preheat Furnace
S935 Hydrocracker Splitter Reboiler	S1020 No. 3 UOP Reformer

PERMIT CONDITION 4357 APPLICATION NO. 27769 PLANT NO. 13 EMISSION CAPS FOR ALL CRITERIA POLLUTANTS. PERMIT APPLICATION 18739/18738 REMOVE FLUID COKER SOURCES AFTER CMP. PERMIT APPLICATION 17928/17458 REMOVE DEMOLISHED SOURCES.

1. ~~Definitions.~~

- a. ~~"Permitted annual emissions" shall mean the allowable emissions for a calendar year authorized by these conditions.~~
- b. ~~"Total annual emissions" shall mean the actual emissions which occur in any calendar year.~~
- c. ~~"Total monthly emissions" shall mean the actual emissions which occur in any calendar month.~~
- d. ~~"Calendar day" (CD) or "calendar day basis" shall mean an average value determined by dividing the yearly total by 365.~~
- e. ~~"Stream day" (SD) or "stream day basis" shall mean the total value occurring on any one 24-hour day, from midnight to midnight, and is the actual daily rate.~~
- f. ~~"Calendar month" shall mean any month of the year measured from 12:01 A.M. on the first day of that month to midnight on the last day of that month.~~
- g. ~~"Calendar year" or "year" shall mean the year measured from 12:01 A.M., January 1 to midnight, December 31.~~
- h. ~~"Permitted Monthly Maximum Emissions" shall mean the maximum allowable emissions for any calendar month authorized by these conditions.~~
- i. ~~"Permitted Monthly Compensatory Emissions" shall mean the allowable emissions in a calendar month before compensatory emission reductions are required.~~
- j. ~~"Start-up" shall mean that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations.~~
- k. ~~"Shutdown" shall mean that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps or operations.~~
- l. ~~"Light hydrocarbon service" shall mean the handling or service of liquid or gas-liquid streams with a true vapor pressure greater than 0.5 psia.~~

2. ~~Emissions.~~

~~The specific emission points covered by the various limitations listed in A-D below are set forth in Table A of the Appendix to these conditions. A summary of revisions to the limitations listed in A through D below are documented in Table A-1. Table A-2 provides a summary of the emission limits in this condition. Tables A, A-1 and A-2 are located in the Appendix to these conditions.~~

~~A. Listed below are the permitted annual emission limits for the emission points covered by this permit that the Permittee/Owner/Operator shall ensure are met. If the permitted annual emission limit for any pollutant is exceeded,~~

~~Permittee/Owner/Operator shall ensure that the applicable provisions of Section 3A are complied with by emission points covered by this permit.~~

~~Particulates (PM-10) — 443.0 tons/yr
Hydrocarbons (POC) — 221.7 tons/yr
NOx — 2867.7 tons/yr
SO2 — 4580.0 tons/yr
CO — 573.0 tons/yr~~

~~(basis: cumulative increase, bubble, BACT)~~

~~B. Listed below are the permitted monthly maximum emission limits for the emission points covered by this permit and Permittee/Owner/Operator shall ensure that these limits are met. If the permitted monthly maximum emission limit for any pollutant is exceeded, Permittee/Owner/Operator shall ensure that the applicable provisions of Section 3B are complied with by emission points covered by this permit.~~

~~Particulates (PM-10) — 46.0 tons/mo
Hydrocarbons (POC) — 77.0 tons/mo
NOx — 346.0 tons/mo
SO2 — 684.0 tons/mo
CO — 57.0 tons/mo~~

~~(basis: cumulative increase, bubble, BACT)~~

~~C. Listed below are the permitted monthly compensatory emission limits applicable to the emission points covered by this permit and Permittee/Owner/Operator shall ensure that the emission limits are met. If the permitted monthly compensatory emission limit for any pollutant is exceeded, Permittee/Owner/Operator shall ensure that the applicable provisions of Section 3C are complied with by emission points covered by this permit.~~

~~Particulates (PM-10) — 42.0 tons/mo
CO — 49.1 tons/mo~~

~~(basis: cumulative increase, bubble, BACT)~~

~~D. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted annual emissions prorated to the number of months elapsed so far that year plus the amounts set forth below, Permittee/Owner/Operator shall ensure that the informational requirements of Section 3D are met.~~

~~Particulates (PM-10) — 9.0 tons
Hydrocarbons (POC) — 35.0 tons
NOx — 69.0 tons
SO2 — 258.0 tons
CO — 9.3 tons~~

~~(basis: cumulative increase, bubble, BACT)~~

~~E. The limits set forth in A & B above are legal limits that Permittee/Owner/Operator shall ensure are not exceeded. Accordingly, in the event that any such limit ever is exceeded, Permittee/Owner/Operator will be immediately subject to the applicable sanctions in Section 3 below and Permittee/Owner/Operator shall comply with the sanctions in Section 3 below. (basis: cumulative increase, bubble, BACT)~~

~~3. Emission Reductions. The following conditions will apply as appropriate, when any of the various permitted emission limits set forth in Section 2 above are exceeded.~~

~~A. If any of the permitted annual emission limits of 2A are exceeded, the following conditions shall apply:~~

~~i. Permittee/Owner/Operator shall install and maintain on a permanent basis abatement equipment as specified in the Environmental Management Plan (or such other abatement measures approved by the Air Pollution Control Officer which will achieve equivalent emission reductions), 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 mission reduction of 2 tons per year);~~

~~ii. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions required under subsection A.i. are achieved; and iii. The permitted annual emissions 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 subsection A.i. above are achieved.~~

~~(basis: cumulative increase, offsets, bubble)~~

~~B. If any of the permitted monthly maximum emission limits of 2B are exceeded, the following conditions shall apply:~~

~~i. The excess shall be charged against the permitted annual limit in 2A above which is applicable to that pollutant by twice the amount by which the limit in 2B 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 will be charged once against the current calendar year and once against the following calendar year;~~

~~ii. Permittee/Owner/Operator shall either (a) install and maintain on a permanent basis abatement equipment or take measures which will achieve equivalent emission reductions as specified in the Environmental Management Plan to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per month by which the applicable limit is exceeded, the hardware to be~~

- ~~installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per month); or (b) take such other abatement measures approved by the Air Pollution Control Officer which will prevent a recurrence of the type of incident which caused the excess; and~~
- ~~iii. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions or other measures required under subsection B.ii. above are achieved. (basis: cumulative increase, bubble)~~
- ~~C. If any of the permitted monthly compensatory emission limits of 2C are exceeded, then the excess shall be charged against the permitted annual limit in 2A above which is applicable to that pollutant by twice the amount by which the limit in 2C 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 will 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 subsection B above are not triggered. (basis: cumulative increase, bubble)~~
- ~~D. If any of the limits of 2D are exceeded, Permittee/Owner/Operator shall submit to the District within 30 days of the end of that calendar month a revised Environmental Management Plan in accordance with Section 14 below, which shall indicate the steps to be taken to assure that the permitted annual emission limits in 2A will be met for that calendar year. (basis: cumulative increase, bubble)~~
- ~~E. Reductions of hydrocarbons may be used to offset increases in NO_x at a ratio of 1:1, provided that Permittee/Owner/Operator 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, as defined in Section 2-2-206 of the District's Rules and Regulations. (basis: cumulative increase, offsets, bubble)~~
- ~~F. In the event that Permittee/Owner/Operator installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will achieve equivalent permanent emission reductions) pursuant to subsection Bii (a) above, any such emission reductions will be credited towards emission reductions which may be required under subsection A.i. above for that same calendar year, provided the generation of offsets complies with applicable requirements of the SIP adopted version of Regulation 2, Rule 2. (basis: cumulative increase, offsets, bubble)~~

4. ~~Monitoring and Source Testing. Permittee/Owner/Operator shall ensure that the following monitoring instruments listed are installed, calibrated, maintained and operated by Permittee/Owner/Operator:~~

~~A. An instrument to continuously monitor and record the H₂S concentrations in fuel gas. (basis: toxics, NSPS)~~

~~B. An instrument to continuously monitor oxygen and nitrogen oxides concentrations in the flue gas from the following units:~~

~~S 937 — No. 1 Hydrogen Plant — steam methane reformer~~

~~S 973 — No. 3 HDS fractionator feed recycle gas heater~~

~~S 974 — No. 3 HDS recycle gas fractionator feed heater~~

~~S 991 — FCCU preheat furnace~~

~~A 908 — SCR unit on S 908, Furnace No. 8, at No. 3 Crude Unit
(basis: cumulative increase, offsets, BACT)~~

~~C. An instrument to continuously or sequentially monitor stack oxygen concentrations on each of, and an instrument to monitor fuel usage by, the following units:~~

~~S 909 — #1 feed prep. furnace #9~~

~~S 912 — #1 feed prep. furnace #12~~

~~S 913 — #2 feed prep. furnace #13~~

~~S 916 — #1 HDS #16 heater~~

~~S 920 — #2 HDS #20 charge heater~~

~~S 921 — #2 HDS #21 charge heater~~

~~S 928 — HDN reactor #28 furnace~~

~~S 929 — HDN reactor #29 furnace~~

~~S 930 — HDN reactor #30 furnace~~

~~S 931 — Hydrocracker #31 furnace~~

~~S 932 — Hydrocracker #32 furnace~~

~~S 933 — Hydrocracker #33 furnace~~

~~S 938 — HDN prefractionator, #38 furnace~~

~~Permittee/Owner/Operator shall ensure that each and all of the required stack oxygen concentration monitors are equipped with oxygen analyzers controlled by feedback systems set at oxygen levels which will yield the minimum amount of nitrogen oxides while still achieving complete combustion.
(basis: cumulative increase, offsets, bubble, BACT)~~

~~D. All other instruments listed on Table D of the Appendix to these Conditions, which are not specifically referred to in A-C above. (basis: cumulative increase, offsets)~~

~~E. Annual source testing shall be completed on S 908, S 917, S 919, S 934 and S 935 to demonstrate compliance with the NO_x, CO and NH₃ emission limits~~

~~in condition 7. Source tests shall be performed when firing refinery fuel gas at, or as nearly as practicable to, the maximum daily firing rates which occurred during the previous six months. Permittee/Owner/Operator shall provide to the District's Source Test Section, in writing and at least two weeks prior to testing, the proposed testing procedures, date and time. Source test procedures are subject to APCO approval. (Permittee/Owner/Operator may submit CEM data in lieu of source test data to demonstrate compliance with NOx emissions from S-908, since a CEM is required for that source.) (basis: cumulative increase, offsets, BACT)~~

~~F. An instrument to continuously monitor and record nitrogen oxides concentration in the flue gas of furnace S-922, S-927, S-934 and/or S-935 shall be installed if a District source test indicates NOx emissions (calculated as NO2) from that furnace exceed 66 ppmv, (60 ppmv limit plus 10%). This limit shall be based on an 8 hour average and corrected to 3% excess oxygen on a dry basis. (basis: cumulative, offsets, BACT)~~

~~5. Reporting and Record Keeping. The following conditions will document Permittee's/Owner's/Operator's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10-1-402 of District regulations.~~

~~A. Permittee/Owner/Operator 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 Conditional Permit, as well as all other data and calculations necessary to determine actual emissions from all emission points covered by this permit. This file, which may contain confidential or proprietary data, shall include, but not be limited to: the data collected from all in-stack monitoring instruments, the records on fuel input rates and relevant records of crude oil and other hydrocarbons processed. Estimates of emissions from all units covered by this permit which are included under the limits set forth in Section 2 above shall be calculated in accordance with Tables B & C of the Appendix to these Conditions. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets, BACT, bubble)~~

~~B. Permittee/Owner/Operator shall make a monthly report to the District, within 30 days after the end of each month, which shall specify the emissions from all operations covered by this permit during the previous month, and shall state in detail the basis therefore. The reporting format for such reports shall be structured so as to enable the Air Pollution Control Officer to readily determine compliance with the provisions of this Conditional Permit, and shall be subject to the approval of the APCO. Any computer programs utilized by Permittee/Owner/Operator to calculate emissions from any operations covered by this permit shall also be subject to the approval of the APCO. (basis: cumulative increase, offsets, BACT, bubble)~~

~~C. Permittee/Owner/Operator shall conduct monthly audits of all emission and fuel rate monitoring systems required under Section 4 above to insure that instrument accuracy is maintained. Permittee/Owner/Operator shall promptly repair all malfunctioning systems and replace any system that has a chronic problem. A record of the results of all such audits shall be maintained as part of the file required under A. above
(basis: cumulative increase, offsets, BACT, bubble)~~

~~6. Process Unit Design.~~

- ~~A. The No. 3 HDS Unit (S-850) shall not process more than 70,000 barrels per stream day. (basis: cumulative increase, toxics, offsets, bubble)~~
~~B. The FCCU Merox Unit (S-848) shall not process more than 55,000 barrels per stream day. (basis: cumulative increase, offsets, toxics, bubble)~~

~~7. Combustion Controls.~~

~~A. Except during periods of startup or shutdown as defined by Regulation 9-10-218 and on a temporary basis for catalyst regeneration at S-1004 No. 2 Catalytic Reformer, emissions of nitrogen oxides (calculated as NO₂) and carbon monoxide shall not exceed the following limits. Except for S-908, these limits shall be based on an 8 hour average and corrected to 3% excess oxygen on a dry basis. For S-908, the limit shall be based on a 3 (three) hour average and corrected to 3% excess oxygen.~~

NO_x	CO	Unit(s)
(ppmvd)	(ppmvd)	
10	50	S-908
40		S-973, and S-974 and S-991
60		S-917, S-919, S-922, S-927, S-934 and S-935
75		S-971 and S-972

~~(basis: cumulative increase, BACT, offsets)~~

~~B. The sum of the maximum firing rates of S-973, and S-974 and S-991, described in 4B above, shall not exceed 159 x 10⁶ BTU/hr.~~

~~(basis: cumulative increase, offsets)~~

~~C. For the furnaces listed in 4C above, Permittee/Owner/Operator shall demonstrate by source tests and calculations that, in the aggregate, NO_x emissions do not exceed 160 lb. NO_x per billion BTUs heat input when firing refinery fuel gas at, or as nearly as practicable to the maximum daily firing rates which occurred during the previous 6 months. Such demonstration shall be made annually. If aggregate emissions from these units exceed 160 lb. NO_x per billion BTU heat input, Permittee/Owner/Operator will install additional controls on other units at the Avon Refinery so as to achieve the same amount of control that would be obtained if all of the units listed in 4C did achieve, in the aggregate, an emission rate of 160 lb. NO_x/billion BTU heat input.~~

~~(basis: cumulative increase)~~

- ~~D. The mass emissions of nitrogen oxides, calculated as NO₂, from furnace S-937 shall not exceed either 1430 pounds per stream day or 1089 pounds per calendar day.
(basis: cumulative increase)~~
- ~~E. Ammonia emissions slip from SCR unit A-908, abating NO_x emissions from S-908, shall not exceed 20 ppmvd. This limit shall be based on a 3 hour average and corrected to 3% excess oxygen on a dry basis.
(basis: BACT)~~
- ~~F. For the purpose of determining compliance with the emission limits in this permit, Permittee/Owner/Operator shall ensure that startup and shutdown operations, as defined in condition 1, do not exceed 8 hours in duration, unless the APCO approves in writing specific startup and shutdown times to be used in lieu of the 8 hour period. Specifically, the startup and shutdown periods for the following sources shall be limited to the hours as updated in Application # 2327 and # 2813.
S-908 — No. 3 Crude Unit furnace F-8
S-973 — No. 3 HDS Fractionator Feed Heater F-56 Unit furnace F-55
S-974 — No. 3 HDS Unit furnace F-56 Recycle Gas Heater F-55
(basis: cumulative increase, offsets)~~
- ~~G. Permittee/Owner/Operator shall ensure that the maximum firing rate of S917 does not exceed the 157,680 MMBtu/yr, based on the HHV of each fuel fired, during every 365 consecutive day period:
(basis: cumulative increase)~~
- ~~H. Permittee/Owner/Operator shall ensure that the maximum firing rate of S917 does not exceed the 432 MMBtu/day, based on the HHV of each fuel fired, during every 365 consecutive day period:
(basis: cumulative increase)~~
8. ~~Hydrocarbon Controls:~~
- ~~A. All new compressor seals in hydrocarbon service associated with this project shall be vented to a closed gas system, except for two high purity hydrogen make up compressors at the new No. 3 HDS Unit. The vapors from the seals on the three (3) existing compressors S-952, S-953, and S-954 shall be collected and vented directly to the compressor inlets, or a closed gas system.
(basis: BACT, cumulative increase)~~
- ~~B. Hydrocarbon vapors associated with the new 80,000 bbl cone roof tank, S-1022 and existing tank S-57 shall be controlled by venting to the vapor recovery system. Tank S-57 may only store or contain materials which have a vapor pressure of 1.5 psia or less. This condition assures that offsets provided as part of Application No. 27769 are permanent.
(basis: BACT, cumulative increase)~~
- ~~C. In the event that No. 4 Gas Plant modifications are not constructed, Permittee/Owner/Operator shall retrofit eight (8) pumps in light hydrocarbon~~

~~service with double mechanical seals or equivalent. In the event that the Hydrogen Recovery Unit is not completed, Permittee/Owner/Operator shall receive a credit of three (3) lb per calendar day against the total fugitive hydrocarbon emissions as listed in Table E of the Appendix to this Conditional Permit. (basis: cumulative increase)~~

9. ~~Sulfur Recovery Facilities.~~

- A. ~~The Claus Unit at the Sulfur Recovery Facility shall achieve a sulfur removal efficiency that will result in emissions of no more than 4 pounds of SO₂ per ton of sulfur processed. (basis: cumulative increase, offsets)~~
- B. ~~In emergency situations where the entire sulfur removal capability of the Sulfur Recovery Facility is not operating, the refinery shall take immediate actions to assure that total SO₂ emissions from both the refinery and the Sulfur Recovery Facility will not exceed 29 tons/stream day. These actions shall include, but need not be limited to, the following.~~
 - i. ~~Condense and store foul water stripper overhead.~~
 - ii. ~~Discontinue burning of coke at No. 6 Boiler.~~
 - iii. ~~Reduce Hydrocracker HDN feed rate to 12,000 bbl/stream day.~~
 - iv. ~~Discontinue burning of fuel oil, except as required to maintain combustion stability and operating safety of the #5 and #6 boilers.~~
 - v. ~~Reduce feed rate to the Coker and to the FCCU, and use all available de-sulfurized feed stock at FCCU feed.~~
 - vi. ~~Shut off feed to No. 1, No. 2, and No. 3 HDS Units and "hot sweep" the reactors.~~
 - viii. ~~If any emission monitor for SO₂ is not operating properly, conduct a daily source test for the source in question. Such source tests shall consist of three continuous 30 minutes measurements, taken at least 30 minutes apart, of the SO₂ concentration and stack gas flow rates. The average of these three measurements shall be used as the basis for establishing SO₂ emissions for purposes of calculation.~~
 - ix. ~~Calculate the emissions of SO₂ from all flares at the refinery, and report same to the District as part of the next monthly report required under 5B above.~~
 - ix. ~~Report this event to the BAAQMD by telephone as soon as possible with due regard to safety, and submit a written follow up, detailing the specific measures taken by Permittee/Owner/Operator to control SO₂ emissions during the event, as part of the next monthly report required under 5B above.~~

~~Measures other than those referred to in i. vi. above, may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 29 tons/stream day.~~

~~(basis: cumulative increase, offsets)~~

- ~~C. When the Sulfur Plant is shutdown and Acid Plant is operating, the refinery will immediately take the following actions to insure the H₂S going to the Sulfur Recovery Facility is within the capacity of the Acid Plant under then-current operating conditions, and will not result in the emissions of more than 23 tons/stream day of SO₂ from both the refinery and the Sulfur Recovery Facility:~~
- ~~i. Condense and store sufficient foul water stripper overhead, and/or~~
 - ~~ii. Reduce feed rate to the Hydrocracker HDN, and/or~~
 - ~~iii. Reduce feed rate to the Coker, and/or~~
 - ~~iv. Reduce feed rate to the No. 1 HDS Unit, and/or~~
 - ~~v. Reduce feed rate to the No. 2 HDS Unit, and/or~~
 - ~~vi. Reduce feed rate to the No. 3 HDS Unit.~~
 - ~~vii. Calculate the emissions of SO₂ from all flares at the refinery, and report same to the District as part of the next monthly report required under 5B above.~~
 - ~~viii. Report this event to the BAAQMD by telephone, within one (1) working day, and submit a written follow-up, detailing the measures taken to control SO₂ emissions during the event, as part of the next monthly report required under 5B above. Measures other than those referred to in i. vi. above may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 23 tons/stream day.~~
(basis: cumulative increase, offsets)

~~10. Access:~~

- ~~A. The APCO or his/her representatives and the U.S. Environmental Protection Agency shall have access to appropriate portions of the refinery and wharf, to conduct source tests or inspections in accordance with Section 1-440 of the District's Rules and Regulations, and the provisions of the Clean Air Act.~~
- ~~B. The APCO or his representatives and the U.S. Environmental Protection Agency shall have the right to inspect and audit all records which are required to be maintained by Section 5 above, and any other records in Permittee/Owner/Operator's possession which will disclose the nature or quantity of emissions from refinery and marine operations.~~
(basis: cumulative increase, offsets, BACT)

~~11. Enforcement. Violation by Permittee/Owner/Operator of any of the conditions set forth in this Conditional Permit shall subject Permittee/Owner/Operator 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. S7401, et seq.). As appropriate, each and every such violation shall be deemed to be a discrete and separate violation with respect to which the District will be entitled to take legal action.~~

(basis: cumulative increase, offsets, BACT)

12. ~~Miscellaneous.~~

- A. ~~No. 1 Isomerization Unit shall be dismantled within ninety (90) days after start up of the #3 HDS Unit.~~
- B. ~~Tanks A-142 and A-319 shall be dismantled within ninety (90) days prior to start up of the #3 HDS Unit.~~
- C. ~~All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this Conditional Permit shall at all times be maintained in good working order and be operated with due regard for the goal of complying with the terms and conditions of this permit and with all applicable District regulations.~~
- D. ~~Nothing in these conditions shall be construed to allow the violation of any law or of any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.~~
- E. ~~Any emission reductions which Permittee/Owner/Operator may be required to undertake in accordance with Section 3 above shall not be eligible to be credited as emission reductions against any subsequent projects for purposes of calculating "cumulative increases", nor shall they be eligible to be "banked" in accordance with the District's New Source Review Rule. However, any emission reductions which Permittee/Owner/Operator achieves in accordance with the Rules and Regulations of the District, above and beyond those reductions required pursuant to this Conditional Permit, may be so credited or "banked."~~
- F. ~~In the event of changes in District regulations which will require actual reductions in the amount of emissions from existing sources which would otherwise be allowed under the terms of this Conditional Permit, the annual limits set forth in Section 2 above shall be reduced by the APCO by an amount equivalent to what would be required under any such rule change.~~
- G. ~~The baseline emissions for purposes of the permit analysis of any proposed new or modified units, which may in the future be proposed to be built by Permittee/Owner/Operator within the boundaries of the Avon Refinery, will be the limits set forth in Section 2A above, as may be amended to reflect subsequent revisions to District rules pursuant to Section 12F or subsequent deposits to or withdrawals from the District's emissions bank, rather than actual emissions after the baseline period of 1977-1979 (which was used as the basis for issuance of this permit), if doing so is allowed pursuant to the SIP adopted version Section 604.2 of Regulation 2, Rule 2.~~
- H. ~~In the course of constructing the project covered by this Conditional Permit, Permittee/Owner/Operator shall install no more valves, pumps, flanges, process drains and compressors for this project than are listed in Table E of the Appendix to this Permit, unless the emissions associated therewith are accompanied by intra-source emission reductions on a 1:1 basis.~~

- ~~Permittee/Owner/Operator shall provide written confirmation of compliance with this condition within 90 days after the start-up of the new #3 HDS Unit.~~
- ~~I. Permittee/Owner/Operator shall apply for a permit when any tanks presently out of service or presently in exempt service are proposed to be placed in nonexempt service. The emissions from any such tanks shall be calculated and, if applicable, shall be subject to the requirements of G. above.~~
 - ~~J. Instrument downtime (including, but not limited to, in-stack monitors and other instruments whose readings are used to calculate emissions) caused by malfunction, upset, breakdown, repair, maintenance or failure where such instrument down-time exceeds a continuous 24-hour period shall be handled as follows for purposes of calculating emissions: Emissions shall be determined by reference to the recorded value for that instrument from the last calendar day (or other relevant period) immediately preceding the day on which the instrument in question became inoperable, for which there was a valid reading, unless the Air Pollution Control Officer determines on the basis of other evidence (such as, but not limited to, the results of source tests conducted during the period in which the instrument is not operating, or changes in operating conditions of the unit in question) that some other value more reasonably reflects the actual emissions during the period in question.~~
 - ~~K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions or other causes for which a variance, an interim variance, or an emergency 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 2 above; provided, however, that this provision shall not excuse Permittee/Owner/Operator from the obligation to report to the District pursuant to 5B above the actual emissions from the emission points covered by this permit during the period covered by any such relief. This part (part K) of this condition is not federally enforceable.~~
 - ~~L. If Permittee/Owner/Operator can demonstrate by modeling to the satisfaction of the Air Pollution Control Officer, consistent with the requirements of the SIP adopted version of Regulation 2, Rule 2 and applicable provisions of the federal Code of Regulations, that increased emissions of carbon monoxide from all emission points covered by this permit will not interfere with the attainment or maintenance of all applicable air quality standards for CO within the District, then the various limits for carbon monoxide set forth in Section 2 of this permit shall be adjusted accordingly.
(basis: cumulative increase, offsets)~~
- ~~13. Severability. The provisions of this Conditional Permit 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 Permit shall not be affected thereby.~~

(basis: cumulative increase, offsets, BACT)

14. Environmental Management Plan:

~~Sixty days prior to start up of the No. 2 Hydrogen Plant (S-994), an initial Environmental Management Plan (EMP) shall be submitted to the District for review by the Air Pollution Control Officer. This plan shall specify how Permittee/Owner/Operator will assure that the permitted annual and monthly maximum emission limits set forth in Sections 2A & 2B above will not be exceeded, and also shall describe feasible options for providing emissions reductions which would be required under Section 3 above, if any of the emissions limits of Sections 2A & 2B were exceeded. The options to be described shall include the installation of various types of abatement equipment which would achieve permanent offsets, and the adoption by Permittee/Owner/Operator of various operational limitations and other short term control measures which would limit emissions. Both long term and short term control options shall be discussed. The purpose of this plan is to provide assurance that Permittee/Owner/Operator is capable of taking all reasonable steps to assure that the various limits established by this Conditional Permit will be complied with, and to expedite any installation of abatement equipment if it is ever required.~~

~~The EMP shall be updated and resubmitted to the District for review by the APCO, whenever any of the limits set forth in Section 2D above are exceeded, or within 1 year after the most recent EMP submittal, whichever comes first. However, in the event that EMP resubmittal is triggered by an excess of any of the limits of Section 2D, that resubmittal shall also describe in detail the means by which Permittee/Owner/Operator will assure that the permitted annual emissions limit of Section 2A will not be exceeded for that calendar year, and shall describe in detail specific control techniques available, and the sources to which they would be most applicable, in the event that permanent offsets were needed. To the extent that any EMP submittal contains confidential information, such information shall be afforded the protection provided by applicable laws, rules and regulations.~~

~~Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Permittee/Owner/Operator as expeditiously as practicable. Within 30 days after its receipt of such comments and recommendations, Permittee/Owner/Operator shall either (1) revise the EMP to reflect such comments and recommendations; or (2) attach as an Appendix to the EMP all comments and recommendations which Permittee/Owner/Operator did not include in its EMP revision together with a detailed explanation as to why each comment and recommendation was not adopted or included in the EMP itself.~~

(basis: cumulative increase, offsets, BACT)

Condition # 4587—Supereeded by Condition 7406 (Application 8592)

S1026 DNF Air Stripper

~~MODIFIED CONDITIONS FOR P/O #4990 (DNF EFFLUENT CHANNEL AIR STRIPPER SYSTEM):~~

1. ~~At all times, except for periods of ongoing inspection, maintenance, or wastewater sampling, Permittee/Owner/Operator shall ensure that the DNF outlet channel is be covered and vented to the DNF air stripping system S-1026 and abated by the thermal incinerator A-39 or activated carbon adsorption system A-38 operating properly as designed. (basis: cumulative increase)~~
2. ~~Permittee/Owner/Operator shall ensure that the DNF air stripping compressor is not operated unless the air sweep fans and the thermal incinerator A-39 or the carbon adsorption system A-38 are operating properly. (basis: cumulative increase)~~
3. ~~Permittee/Owner/Operator shall ensure that a differential pressure controller varies the air sweep fan speed, relative to the air stripping rate, to control the air space below the DNF covers to a pressure less than atmospheric pressure. (basis: cumulative increase)~~
4. ~~Permittee/Owner/Operator shall ensure that the carbon adsorption system A-38 consists of two parallel trains, each consisting of two carbon canisters in series. Permittee/Owner/Operator shall ensure that the first canister in series, which functions as the primary hydrocarbon removal canister, will be denoted as Canister #1. Permittee/Owner/Operator shall ensure that the second canister in series, which functions as the primary H₂S removal canister, will be denoted as Canister #2. (basis: toxics)~~
5. ~~A. Permittee/Owner/Operator shall ensure that the non-methane hydrocarbon emissions to the atmosphere from the thermal incinerator A-39 shall not exceed 10 ppm (calculated as C1) on a rolling one hour average basis.
B. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from the carbon adsorption system A-38 shall not exceed 20 ppm (calculated as C1) on a rolling one hour average basis.~~
6. ~~To verify compliance with Condition No. 5, Permittee/Owner/Operator shall install, maintain, and operate a District approved continuous hydrocarbon monitor and recorder.~~
7. ~~Permittee/Owner/Operator shall ensure that H₂S emissions to the atmosphere from the thermal incinerator A-39 and/or the carbon adsorption system A-38 shall not exceed 1 ppm. (basis: toxics)~~

8. ~~Permittee/Owner/Operator shall ensure that testing for hydrocarbon and H₂S breakthrough in each of the two parallel trains of the carbon adsorption system A-38 is done according to the following schedule and methodology.~~

~~Hydrocarbon testing:~~

- ~~• Testing shall be accomplished with a District approved portable hydrocarbon analyzer through sample taps located immediately downstream of Canister #1 and immediately downstream of Canister #2.~~
- ~~• Testing shall be done at least once during every 24 hours of operation.~~
- ~~• As an alternative to daily testing, a District approved continuous monitor/recorder may be used to measure the concentration immediately downstream of Canister #1.~~
- ~~• When the concentration of non-methane hydrocarbons immediately downstream of Canister #1 exceeds 20 ppm, flow will be diverted to the parallel fresh Canister #1 within one hour.~~
- ~~• The spent canister shall be replaced within 4 working days of changeover to the fresh Canister #1. (basis: cumulative increase, offsets)~~

~~Hydrogen Sulfide testing:~~

- ~~• Permittee/Owner/Operator shall ensure that hydrogen sulfide testing is accomplished with a District approved portable H₂S analyzer through sample taps located in Canister #2 and immediately downstream of Canister #2.~~
- ~~• Permittee/Owner/Operator shall ensure that hydrogen sulfide testing is done at least once during every 24 hours of operation.~~
- ~~• As an alternative to daily testing, Permittee/Owner/Operator shall ensure that for hydrogen sulfide testing, a District approved continuous monitor/recorder is used to measure the hydrogen sulfide concentration in Canister #2.~~
- ~~• When the H₂S concentration in the sample tap in Canister #2 and closest to the outlet of Canister #2 exceeds 1 ppm, Permittee/Owner/Operator shall ensure that the flow will be diverted to the fresh parallel Canister #2 within one hour.~~
- ~~• Permittee/Owner/Operator shall ensure that the spent canister is replaced within 2 weeks of changeover to the fresh carbon adsorption system. (basis: toxics)~~

9. ~~Moved to Condition 7406, Part B10. Permittee/Owner/Operator shall ensure that the thermal incinerator A-39 shall not be used to abate stripped gas from the air stripper S-1026 unless A-39 is operating at a minimum furnace temperature of 1350 °F, to ensure compliance with Condition Nos. 5 and 7. In the event that the incinerator A-39 is not available as a control device, then Permittee/Owner/Operator shall ensure that the stripped gas from S-1026 is abated by the carbon adsorption system A-38. (basis: cumulative increase, offsets)~~

10. ~~Permittee/Owner/Operator shall install, maintain, and operate a District approved continuous temperature monitor/recorder to verify compliance with Condition No. 9. (basis: cumulative increase, offsets)~~

~~11. Permittee/Owner/Operator shall maintain a file of District approved records containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. Permittee/Owner/Operator shall ensure that this file includes, but is not limited to:~~

- ~~a. The hours of operation of each permitted piece of equipment, including identification of the abatement device(s) used to control emissions from air stripper S 1026 and the API/DAF system S 819; thermal incinerator A 39 or carbon adsorption system A 38 or the refinery vapor recovery system A 14 (backup abatement device for S 819 only).~~
- ~~b. Each monitor reading, recording, or analysis result for the day of operation they are taken.~~
- ~~c. Identification of carbon canisters removed from service, including the time and date of each changeout.~~

~~This file of District approved records shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded.~~

~~Permittee/Owner/Operator shall ensure that each and every exceedance of Condition No(s) 5, 6, 7 and/or 8 is reported to the District's Enforcement Division within 96 hours after the occurrence. The submittal shall include the data showing the exceedance and its time of occurrence, and shall detail the nature, extent, probable cause of the exceedance, and corrective action taken to eliminate the exceedance and comply with applicable requirements.~~

~~(basis: cumulative increase, offsets)~~

Condition # 5000

APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

CONDITIONS FOR STORAGE TANK S 705 SECONDARY SEAL:

- ~~1. The secondary seal installed on storage tank S 705 must meet the criteria of Regulation 8-5, Sections 322. (basis: Reg. 8-5, cumulative increase)~~
- ~~2. To verify compliance with Condition #1 above, the owner/operator of S 705 shall submit to the District, within 30 days of installation of the secondary seal, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. This certification shall be submitted to the District on an annual basis. The time interval between certifications shall not exceed 15 months. (basis: Reg. 8-5, cumulative increase)~~

Condition # 5379

Facility Condition

Condition archived from PTO in 2003.

- A. In order for Permittee/Owner/Operator to use the controlled lightering factors, they must abide by the following conditions:
1. Permittee/Owner/Operator shall contract with crude carriers to allow the District access to all crude lightering operations conducted in the San Francisco Bay and to be delivered to Permittee/Owner/Operator. Access to lightering operations shall be provided via the regularly scheduled water taxi service. (basis: cumulative increase, offsets, bubble)
 2. Permittee/Owner/Operator or its agent shall provide a listing and voyage history for all ships delivering crude to Permittee/Owner/Operator, calculate emissions using the emission factors in Condition No. 5, provide pressure charts required in Condition No. 7, and submit a report on a quarterly basis to the District. (basis: cumulative increase, offsets, bubble)
 3. On a quarterly basis, Permittee/Owner/Operator or its agent shall provide the District with copies of all U.S. Army Corps of Engineers form 3925 for all material transferred by or for Permittee/Owner/Operator in the San Francisco Bay for delivery to Permittee/Owner/Operator. (basis: cumulative increase, offsets, bubble)
 4. On a quarterly basis, Permittee/Owner/Operator or its agent shall provide verification of each controlled transfer. (basis: cumulative increase, offsets, bubble)
 5. Permittee/Owner/Operator shall use the following emission factors to calculate emissions from crude oil lightering operations:

	Ships	Barges
controlled, lb/Mgal	0.05	0.085
uncontrolled, lb/Mgal	1.0	1.7

(basis: cumulative increase, offsets, bubble)
 6. The highest pressure developed during the lightering shall not exceed 80% of the lowest relief valve set pressure of either vessel involved in the transfer. Pressure excursions not exceeding 15 minutes cumulative duration during a lightering transfer and not causing lifting of any pressure relief device shall be allowed. (basis: cumulative increase, offsets, bubble)
 7. The pressure developed in the vessel tanks during lightering shall be continuously recorded while the vessel is in District waters. (basis: cumulative increase, offsets, bubble)
 8. The tanks of all vessels involved in a lightering operation using the controlled emission factors shall be tested to verify that there is no leakage at 80% of the lowest relief valve set pressure at least once every three years. This test shall be done at the completion of refurbishing ("dry dock") and shall test the entire system, manifold, pressure relief valves, hatch covers, etc. An OVA, bubble

- test, or other equivalent procedure approved by the APCO may be used. (basis: cumulative increase, offsets, bubble)
9. ~~During controlled lightering operations, both vessels' inert gas systems shall be isolated from the vapor space of the cargo tanks. If inert gas is generated during the transfer of cargos, the emissions for that transfer shall be calculated using the controlled emissions factors. If Permittee/Owner/Operator can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be allowed. (basis: cumulative increase, offsets, bubble)~~
 10. ~~A fugitive emission maintenance program will be implemented on each lighter vessel used by Permittee/Owner/Operator or its agent. A complete survey of all above-deck equipment will be performed by Permittee/Owner/Operator or its agent once per quarter. (basis: cumulative increase, offsets, bubble)~~
 11. ~~Using an OVA, bubble test, or other procedure approved by the APCO, Permittee/Owner/Operator or their agent shall conduct a fugitive emission survey of all in-service pressure relief valves on both vessels prior to completion of 20% of the cargo transfer and repeated at least once after transferring 60% of the cargo. A leak shall be defined as a reading in excess of 10,000 ppmv, as methane. All readings in excess of 10,000 ppmv, as methane, shall be noted by source and maximum concentration. If any leak cannot be repaired, or valve removed from service, within 15 minutes of detection, the uncontrolled emission factors of Condition No. 5 shall be used to calculate emissions for the entire lightering event. If Permittee/Owner/Operator can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, based on District approved emissions monitoring, emissions less than uncontrolled may be used. All survey results shall be summarized in the report required by Condition No. 2. (basis: cumulative increase, offsets, bubble)~~
 12. ~~Vessel involved in controlled lightering events shall not perform any operations which result in venting crude oil cargo vapors in District waters. These operations include as example: open cargo inspections, open gauging, gas freeing of tanks for maintenance or inspection, or venting of ballast loading emissions. When any such venting operation is required, the circumstances of the incident will be logged, along with pertinent information such as tank volume, contents, and pressure before and after venting. The uncontrolled emission factors of Condition No. 5 shall be used to calculate emissions for the entire loading operation. If Permittee/Owner/Operator can demonstrate that emissions were partially controlled to the satisfaction of the APCO, based on District approved source testing, emissions less than uncontrolled may be used. These emissions will be added to the emission calculations and reported under Condition No. 2. (basis: cumulative increase, offsets, BACT, bubble)~~
 13. ~~Permittee/Owner/Operator's annual hydrocarbon emissions cap shall be reduced by 27.8 tons per year on the date when Regulation 8, Rule 46, Marine Vessel to Marine Vessel, becomes effective. If the effective date does not fall on January 1st, the amount of reduction for the particular year in which the~~

~~Rule becomes effective shall be prorated for the remainder of the year following the effective date. (basis: cumulative increase, offsets, bubble)~~

Condition # 5711

Application 5267 (1,1,1 TCA tank) 1990
Amended by Application 25684 (1995), added perchloroethylene
Amended by Application 17472/17473 (December 2008); remove 1,1,1 TCA

S795 #3 Reformer Perchloroethylene Tank V-307

1. Permittee/Owner/Operator shall ensure that the total material throughput for storage tank S-795 does not exceed 11,000 gallons in any consecutive 12 month period. (basis: toxics, cumulative increase)
2. If a material other than ~~1,1,1 trichloroethane or~~ perchloroethylene is to be stored in tank S-795, the Permittee/Owner/Operator shall first apply to, and receive from, the District a change in permit conditions, unless the modification is exempt from Authority to Construct requirements under limited exemption 2-1-106. (basis: toxics, cumulative increase)
3. Permittee/Owner/Operator shall ensure that all tank loading operations at S-795 are abated by the vapor balance system A-796. (basis: cumulative increase, toxics)
4. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-795 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 five years from the date that the record was made.
 - a. Identification 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.(basis: cumulative increase, toxics)

Condition # 5933

~~S 279 Tank A 279~~

~~PERMIT CONDITIONS FOR S 279, INTERNAL FLOATING ROOF STORAGE TANK:
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

- ~~1. Permittee/Owner/Operator shall ensure that the floating roof and primary and secondary seals installed on storage tank S 279 meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an internal floating roof~~

~~tank with riveted shell and metallic shoe primary seal and secondary wiper seal.
(basis: Regulation 8-5, cumulative increase)~~

- ~~2. To verify compliance with Condition #1 above, the Permittee/Owner/Operator of S-279 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. Permittee/Owner/Operator shall ensure that, for each seal, the time interval between such certifications shall not exceed 10 years. (basis: Regulation 8-5, cumulative increase)~~

Condition # 5944

~~S642 Tank A-642~~

~~PERMIT CONDITIONS FOR S-642, EXTERNAL FLOATING ROOF STORAGE TANK:
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

- ~~1. Permittee/Owner/Operator shall ensure that the floating roof and primary and secondary seals installed on storage tank S-642 meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an external floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: Regulation 8-5, cumulative increase)~~
- ~~2. To verify compliance with Condition #1 above, Permittee/Owner/Operator of S-642 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For secondary seals, this certification shall be submitted to the District on an annual basis. Permittee/Owner/Operator shall ensure that the time interval between such certifications does not exceed 15 months. For primary seals, Permittee/Owner/Operator shall ensure that the certification is submitted to the District at least once every 5 years. (basis: Regulation 8-5, cumulative increase)~~

Condition # 5957

~~S-26 Tank A-26~~

~~TESORO REFINING AND MARKETING COMPANY, APPL. #6724, PL. #13
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

- ~~1. Permittee/Owner/Operator shall ensure that the secondary seal installed on storage tank S-26 meets criteria of District Regulation 8, Rule 5, Section 322. (basis: Regulation 8-5, cumulative increase)~~

2. ~~To verify compliance with Condition #1 above, Permittee/Operator/Operator of S-26 shall submit to the District, within 30 days of installation of the secondary seal, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. Permittee/Owner/Operator shall ensure that this certification is submitted to the District on an annual basis. Permittee/Owner/Operator shall ensure that the time interval between certifications does not exceed 15 months. (basis: Regulation 8-5, cumulative increase)~~

Condition # 6740

Application 6167 (August 1992).

Amended by application 12404 (April 2005) to correct permit condition to ~~explicitly~~ allow storage of ethyl alcohol, to increase throughput to 400,000 bbl/year, and to eliminate repetition of District Rules in condition.

Application 11091 (October, 2005): increase ethyl alcohol throughput from 243,000 bbl/yr to 400,000 bbl/yr, eliminate storage of gasoline. Application 6167 (August 1992), amended by application 11091 (11594 Title V), amended by application 12404 (April 2005) to correct permit condition to explicitly limit allow storage of to only ethyl alcohol, to increase throughput to 400,000 bbl/year, and to, eliminate repetition of District Rules in condition.

Application 21023 (January 2010): increase ethanol throughput from 400,000 bbl/yr to 1,200,000 bbl/yr.

S612 Tank A-612; Internal Floating Roof, Capacity: 420K Gallons, Storing: ~~Gasoline and Ethyl Alcohol~~

PERMIT CONDITIONS FOR S-612, INTERNAL FLOATING ROOF STORAGE TANK.

1. Deleted by Application 12404 (Covered by Regulation 8, Rule 5).
2. Deleted by Application 12404 (Notification of seal installation provided).
3. Owner/Operator shall ensure that the total liquid throughput for storage tank S-612 does not exceed ~~243,000~~ 400,000 1,200,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
4. Owner/Operator shall ensure that only ~~gasoline or fuel grade~~ ethyl alcohol with a true vapor pressure less than or equal to 7.1 psia is stored in tank S-612. If an alternative material is to be stored in S-612, the owner/operator shall first apply for and receive from the District written approval for the storage of the alternative material(s). (basis: cumulative increase)

5. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-612 shall maintain the following records in a District approved log:
 - a. The types of material stored and the dates that the materials were stored.
 - b. The total throughput of each material stored, summarized on a monthly basis. Permittee/Owner/Operator shall ensure that these records are kept on site and made available for District inspection for a period of 5 years from the date that the last record was made. (basis: cumulative increase, Regulation 8-58-501)

Condition # 7144

~~S601 Tank A-601~~

~~PERMIT CONDITIONS FOR S-601, INTERNAL FLOATING ROOF STORAGE TANK:
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

- ~~1. Permittee/Owner/Operator shall ensure that the floating roof and primary and secondary seals installed on storage tank S-601 meet the design specifications and seal gap requirements of District Regulation 8, Rule 5, for an internal floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: cumulative increase, Regulation 8-5)~~
- ~~2. To verify compliance with Condition #1 above, Permittee/Owner/Operator of S-601 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For each seal, the time interval between such certifications shall not exceed 10 years. (basis: cumulative increase, Regulation 8-5)~~

Condition # 7397

S901 No. 7 Boiler

1. Permittee/Owner/Operator shall ensure that the total ammonia injection at A-30, electrostatic precipitator, does not exceed 1,800 lb. in any consecutive 24 hour period (75 lb/hr basis). (basis: toxics)
2. To verify compliance with Condition No. 1, the Permittee/Owner/Operator of A-30 shall install and maintain a District-approved aqueous ammonia flow meter and recorder. Permittee/Owner/Operator shall ensure that the records are made available for District inspection and kept for a period of at least five years after date of entry. (basis: toxics, cumulative increase, offsets)

As an alternative to such ammonia flow monitoring, the owner/operator of A-30 may elect to conduct a District- approved flow rate test that demonstrates that the maximum ammonia injection rate cannot exceed 75 lb/hr. (basis: toxics)

3. S-901, boiler #7 shall burn only gaseous fuels. (basis: cumulative increase)

Condition # 7405

S590 DEA Flash Drum

1. (Condition completed: fugitive component count submitted in accordance with authority to construct condition; cumulative increase adjusted to 14.1 lb/day POC)
2. ~~Deleted. (Redundant with Regulation 8, Rule 18)~~The Permittee/Owner/Operator of S-590 shall implement an Inspection and Maintenance program for fugitive POC emissions from all new pumps, valves and flanges associated with this project in accordance with District Regulation 8, Rules 18, 25, and 28 with the following revisions:
 - ~~a. Permittee/Owner/Operator shall ensure that all accessible pumps, valves, and flanges are subjected to quarterly inspection and maintenance criteria;~~
 - ~~b. The leak limitation shall be 100 ppm (expressed as methane) for valves and flanges and 500 ppm (expressed as methane) for pumps, measured above background, 1 cm from the source;~~
 - ~~c. Permittee/Owner/Operator shall ensure that within 7 days of detection, each and all leaks shall be repaired or minimized in accordance with the above referenced Regulations.~~

~~Permittee/Owner/Operator shall ensure that S590 is operated in compliance with each future revision to Regulation 8, Rules 18, 25, or 28 with the understanding that revisions shall supersede the above listed requirements, but only if the revised Rule requirement is more stringent than the above criteria.~~

~~(basis: cumulative increase, toxics, Regulation 8-18, Regulation 8-25, Regulation 8-28)~~

3. ~~Deleted. (Redundant with Regulation 8, Rule 28)~~Permittee/Owner/Operator shall ensure that all new pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system.
~~(basis: cumulative increase, Regulation 8-28)~~

Condition # 7406

S819 API Oil-Water Separator
S1026 DNF Air Stripper

Application 4990 (1990)
Modified by Application #8592 (1992)

Modified by Application 20143 (May 2009), Incorporation of Condition 4587 and the removal of A38.

API Separator/DNF Unit Abatement Project Permit Conditions

Conditions for Application #8592: ~~Conditions for this A #8592:~~

- A1. During all times of operation of Source S-819, Permittee/Owner/Operator shall ensure that the API oil/water separator, influent head channel and wet oil pit, and dissolved ~~air-nitrogen~~ flotation (~~DAF~~~~DNF~~) unit are all be enclosed and vented to the headspace of the air stripper S-1026 and abated by the thermal incinerator A-39, except as indicated below. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- A2. Permittee/Owner/Operator shall ensure that in the event that thermal oxidizer A-39 is not available as a control device for S-819, then S-819 shall ~~either~~ be abated by ~~the backup activated carbon system A-38 of Permit #4990, or by~~ the refinery vapor recovery system A-14. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- A3. ~~Deleted. (Redundant with Regulation 8-8-305.1)~~~~Deleted. Redundant with Regulation 8-8.~~ All Source S-819 inspection and access hatches shall be closed except when the opening is being used for inspection, maintenance, or wastewater sampling. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- A4. ~~Deleted. (Redundant with the requirements of District Regulation 8, Rule 8.)~~~~Deleted. Redundant with Regulation 8-8.~~ The covers installed on the east and west sump pump pits, slide head gate area, trash rack area, sludge sump, and junction boxes must meet the respective seal and enclosure requirements of District Regulation 8, Rule 8. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

MODIFIED CONDITIONS FOR APPLICATION #4990 (DNF EFFLUENT CHANNEL AIR STRIPPER SYSTEM):

- B1. Permittee/Owner/Operator shall ensure that at all times, except for periods of ongoing inspection, maintenance, or wastewater sampling, the DNF outlet channel shall be covered and vented to the DNF air stripping system S-1026 and abated by the thermal incinerator A-39 ~~or activated carbon adsorption system A-38~~ operating properly as designed. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- B2. Permittee/Owner/Operator shall ensure that the DNF air stripping compressor does not operate unless the air sweep fans and the thermal incinerator A-39 ~~or the carbon~~

~~adsorption system A-38 are operating properly. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)~~

B3. Permittee/Owner/Operator shall ensure that a differential pressure controller varies the air sweep fan speed, relative to the air stripping rate, to control the air space below the DNF covers to a pressure less than atmospheric pressure. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

B4. ~~Deleted. (Carbon system A-38 removed from service). Permittee/Owner/Operator shall ensure that the carbon adsorption system A-38 consists of two parallel trains, each consisting of two carbon canisters in series. Permittee/Owner/Operator shall ensure that the first canister in series, which functions as the primary hydrocarbon removal canister, is denoted as Canister #1. Permittee/Owner/Operator shall ensure that the second canister in series, which functions as the primary H2S removal canister, is denoted as Canister #2. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)~~

B5. A. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from the thermal incinerator A-39 do not exceed 10 ppm (calculated as C1) on a rolling one hour average basis. (basis: BACT, offsets, cumulative increase)

B. ~~Deleted. (Carbon system A-38 removed from service). Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from the carbon adsorption system A-38 do not exceed 20 ppm (calculated as C1) on a rolling one hour average basis. (basis: BACT, offsets, cumulative increase)~~

B6. ~~Deleted. (Carbon system A-38 removed from service). To verify compliance with Condition No. B5, Permittee/Owner/Operator shall install, maintain, and operate a District approved continuous hydrocarbon monitor and recorder. (basis: BACT, offsets, cumulative increase)~~

B7. Permittee/Owner/Operator shall ensure that H2S emissions to the atmosphere from the thermal incinerator A-39 ~~or the carbon adsorption system A-38~~ do not exceed 1 ppm. (basis: toxics)

B8. ~~Deleted. (Carbon system A-38 removed from service). Permittee/Owner/Operator shall ensure that testing for hydrocarbon and H2S breakthrough in each of the two parallel trains of the carbon adsorption system A-38 is done according to the following schedule.~~

~~Hydrocarbon testing:~~

- ~~•Permittee/Owner/Operator shall ensure that hydrocarbon emissions testing is accomplished with a District approved portable hydrocarbon analyzer through~~

~~sample taps located immediately downstream of Canister #1 and immediately downstream of Canister #2.~~

- ~~•Permittee/Owner/Operator shall ensure that the testing is done at least once during every 24 hours of operation.~~
 - ~~•As an alternative to daily testing, Permittee/Owner/Operator shall ensure that a District approved continuous monitor/recorder is used to measure the concentration immediately downstream of Canister #1.~~
 - ~~•When the concentration of non-methane hydrocarbons immediately downstream of Canister #1 exceeds 20 ppm, Permittee/Owner/Operator shall ensure that flow is diverted to the parallel fresh Canister #1 within one hour.~~
 - ~~•Permittee/Owner/Operator shall ensure that the spent canister is replaced within 4 working days of changeover to the fresh Canister #1.~~
- (basis: BACT, offsets, cumulative increase)

Hydrogen Sulfide testing:

- ~~•Permittee/Owner/Operator shall ensure that hydrogen sulfide emissions testing is accomplished with a District approved portable H₂S analyzer through sample taps located in Canister #2 and immediately downstream of Canister #2.~~
 - ~~•Permittee/Owner/Operator shall ensure that testing is done at least once during every 24 hours of operation.~~
 - ~~•As an alternative to daily testing, Permittee/Owner/Operator shall ensure that a District approved continuous monitor/recorder is used to measure the concentration in Canister #2.~~
 - ~~•When the H₂S concentration in the sample tap in Canister #2 and closest to the outlet of Canister #2 exceeds 1 ppm, Permittee/Owner/Operator shall ensure that the flow is diverted to the fresh parallel Canister #2 within one hour.~~
 - ~~•Permittee/Owner/Operator shall ensure that the spent canister shall be replaced within 2 weeks of changeover to the fresh carbon adsorption system.~~
- (basis: toxics)

B9. ~~Deleted. (Initial source test completed in April and May 1992.) Within 60 days of startup of the thermal incinerator A-39, Permittee/Owner/Operator shall conduct a District approved source test to verify compliance with Condition Nos. B5 and B7. In addition, Permittee/Owner/Operator shall ensure that this test determines the minimum operating temperature of the incinerator A-39 required to ensure compliance on a continuous basis, as specified in Condition Nos. B10 and B11.~~

(basis: BACT, offsets, cumulative increase)

B10. Permittee/Owner/Operator shall ensure that the thermal incinerator A-39 shall not be used to abate stripped gas from the air stripper S-1026 unless A-39 is operating at a minimum temperature of 1350 °F, to ensure compliance with Condition Nos. B5A and B7. (basis: cumulative increase, offsets, BACT)

~~Permittee/Owner/Operator shall ensure that thermal incinerator A-39 is not be used to abate stripped gas from the air stripper S-1026 unless A-39 is operating at or above the minimum furnace temperature determined by source test per Condition No. 9.~~

~~This minimum temperature shall be increased if the District determines that the source test of Condition No. B9 deems it necessary for compliance with Conditions Nos. B5 and B7. In the event that the incinerator A 39 is not available as a control device, then Permittee/Owner/Operator shall ensure that the stripped gas from S-1026 shall be abated by the carbon adsorption system A 38.
(basis: BACT, offsets, cumulative increase)~~

B11. Permittee/Owner/Operator shall install, maintain, and operate a District- approved continuous temperature monitor/ recorder on A39 Thermal Oxidizer to verify compliance with ~~Condition Nos. Part 9 and B10.~~

(basis: BACT, offsets, cumulative increase)

B12. Permittee/Owner/Operator shall maintain a file of District approved logs containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. This file must include, but is not limited to:

- a. The hours of operation of each permitted piece of equipment, including identification of the abatement device(s) used to control emissions from air stripper S-1026 and the API/DAF system S-819; thermal incinerator A-39 ~~or carbon adsorption system A-38~~ or the refinery vapor recovery system A-14 (backup abatement device for S-819 only).
- b. Each monitor reading, recording, or analysis result for the day of operation they are taken.
- c. ~~Deleted. (Carbon system A-38 removed from service).. Identification of carbon canisters removed from service, including the time and date of each changeout.~~

Permittee/Owner/Operator shall ensure that the District approved logs are kept on site and that they are made available for District inspection upon request for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded.

Any exceedance of ~~Condition No(s)Parts. B5, 6, B7~~ and/or B108 shall be reported to the District's Enforcement Division within 96 hours after such occurrence. The submittal shall include the data showing the exceedance and its time of occurrence, and shall detail the nature, extent, probable cause, and corrective action taken.

(basis: BACT, offsets, cumulative increase, toxics)

Condition # 7410

S606 50 Unit Wastewater Air Stripper A
S607 50 Unit Wastewater Air Stripper B

1. Permittee/Owner/Operator shall ensure that the air strippers S-606 and S-607 are not operated unless they are abated at all times by furnace S-950. (basis: cumulative increase, toxics)
2. Permittee/Owner/Operator shall ensure that the total stripped gas throughput from the air strippers S-606 and S-607 does not exceed 700 SCFM. (basis: cumulative increase, toxics)
3. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from furnace S-950 do not exceed 20 ppm (calculated as C1) on a rolling one hour average basis. (basis: cumulative increase)
4. Permittee/Owner/Operator shall ensure that H₂S emissions to the atmosphere from furnace S-950 do not exceed 1 ppm on a rolling one hour average basis. (basis: toxics)
5. Permittee/Owner/Operator shall ensure that furnace S-950 is not used to abate stripped gas from the air strippers S-606 and S-607 unless S-950 is operated with a furnace temperature of at least 1500°F. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition Nos. 3 and 4. (basis: cumulative increase)
6. Permittee/Owner/Operator shall install, maintain, and operate a District- approved continuous temperature monitor/recorder to verify compliance with Condition No. 5. (basis: cumulative increase)
7. Permittee/Owner/Operator shall maintain a District approved log in a file containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. Permittee/Owner/Operator shall ensure that this District approved log in the file includes, but is not limited to:
 - a. The hours of operation of each permitted piece of equipment.
 - b. Each monitor reading, recording, or analysis result for the day of operation they are taken.

Permittee/Owner/Operator shall ensure that this material is kept available for District inspection for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded. (basis: toxics, cumulative increase)

Condition # 7688

- S1101 Subsurface Aeration System [at Tract 3 West Canal]
- S1102 Subsurface Aeration System [at Tract 3 North Pond]

S1103 Subsurface Aeration System [at Clean Canal Forebay]

S1104 Subsurface Aeration System [at Oily Canal]

PERMIT CONDITIONS FOR SUBSURFACE AERATOR SYSTEMS AT S-1101, S-1102, S-1103, AND S-1104:

1. Permittee/Owner/Operator shall ensure that operation of this equipment is limited to the locations and aeration equipment specified unless Permittee/Owner/Operator has applied to, and received written approval from, the District for a change in permit conditions. (basis: cumulative increase)

Condition # 8003

~~S103 Vehicle Service Station (Application 18835/18832 replaced S103 with S1525)~~

- ~~1. Permittee/Owner/Operator shall ensure that permanent access to the Hasstech Processor and vacuum pump is provided to the District staff for the purpose of inspection and/or testing. (basis: cumulative increase, toxics)~~
- ~~2. Permittee/Owner/Operator shall ensure that a remote Status Panel and tank correction gauge are installed and operated at S103 as per manufacturer's recommendations. (basis: cumulative increase, toxics)~~
- ~~3. Permittee/Owner/Operator shall ensure that S103 is operated such that system pressure during loading operations does not exceed 18 inches water column. (basis: cumulative increase, toxics)~~
- ~~4. Permittee/Owner/Operator shall ensure that the pressure vacuum valves are vapor tight whenever the tank pressure is 4 inches water column or below. (basis: cumulative increase, toxics)~~
- ~~5. Pursuant to BAAQMD Toxic Section policy, Permittee/Owner/Operator shall ensure that S103 annual throughput does not exceed 540,000 gallons in any consecutive 12 month period. (basis: toxics)~~
- ~~6. In gallon units, Permittee/Owner/Operator shall maintain a District approved log in which Permittee/Owner/Operator shall record the throughput of each fuel and each hydrocarbon transferred at S103. Permittee/Owner/Operator shall ensure that the log is retained on site for at least 5 years from date of last entry, and that the log is made available to the District staff upon request. (basis: Regulation 2-1-403, toxics)~~

Condition # 8077

Application 27769 The No. 3 HDS Unit (1981)

PERMIT NO. 3318: REFINERY MODERNIZATION PROJECT PERMIT CONDITIONS

NEW PERMIT CONDITIONS FOR PERMIT NO. 3318

Application 14047: Clarify conditions to allow owner/operator to shutdown ammonia injection to A-31 SCR during both startup and shutdown of S-974 (Part A2A).

Application 19300 (December 2008) Added S-904 No. 6 Boiler House

Application 19647 (March 2009) Consolidate With Condition 4357

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Changed by Application 21711 (May 2010) Deleted Parts A10-A14 (redundant or completed items). Revised Part B6B and deleted Part B6D (S848 out of service)

Appendices A-D

Hyperlink to Appendix A to go here.

http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02a.ashx

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02a.pdf

Hyperlink to Appendix B to go here.

http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02b.ashx

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02b.pdf

Hyperlink to Appendix C to go here.

http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02c.ashx

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02c.pdf

Hyperlink to Appendix D to go here.

http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02d.ashx

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02d.pdf

S57 Tank A-57
S323 Tank A-323
~~S848 FCCU Mercox Unit~~

S850 No. 3 HDS Unit
S901 No. 7 Boiler
S904 No. 6 Boiler
S908 No. 3 Crude Heater (F8)
S909 No. 1 Feed Prep Heater (F9)
S912 No. 1 Feed Prep Heater (F12)
S913 No. 2 Feed Prep Heater (F13)
S915 Platformer Intermediate Heater
S916 No. 1 HDS Heater (F16)
S917 No. 1 HDS Prefract Reboiler (F17)
S919 No. 2 HDS Depent Reboiler (F19)
S920 No. 2 HDS Charge Heater (F20)
S921 No. 2 HDS Charge Heater (F21)
S928 HDN Reactor A Heater (F28)
S929 HDN Reactor B Heater (F29)
S930 HDN Reactor C Heater (F30)
S931 Hydrocracker Reactor 1 Heater (F31)
S932 Hydrocracker Reactor 2 Heater (F32)
S933 Hydrocracker Reactor 3 Heater (F33)
S934 Hydrocracker Stabilizer Reboiler (F34)
S935 Hydrocracker Splitter Reboiler (F35)
S937 Hydrogen Plant Heater (F37)
~~S938 HDN Prefractionator Heater (F38)~~
S951 No. 2 Reformer Aux Reheater (F51)
S952 Internal Combustion Engine
S953 Internal Combustion Engine
S954 Internal Combustion Engine
S955 Internal Combustion Engine
S956 Internal Combustion Engine
S957 Internal Combustion Engine
S958 Internal Combustion Engine
S959 Internal Combustion Engine
S960 Internal Combustion Engine
S963 Gas Turbine 177
S971 No. 3 Reformer UOP Furnace (F53)
S972 No. 3 Reformer Debutanizer Reboiler (F54)
S973 No. 3 HDS Recycle Gas Heater (F55)
S974 No. 3 HDS Fract Feed Heater (F56)
~~S991 FCCU Preheat Furnace H-57~~
S1009 Alkylation Unit

~~PERMIT NO. 3318: REFINERY MODERNIZATION PROJECT PERMIT CONDITIONS~~
~~NEW PERMIT CONDITIONS FOR PERMIT NO. 3318~~
~~Permit Application 14047: Clarify conditions to allow owner/operator to shutdown ammonia injection to A-31 SCR during both startup and shutdown of S-974 (Part A2A).~~
~~Application XXXXX (Oct 2008) Remove S904 Back Up CO Boiler Service~~

A2A. For S-974, the total start-up or shutdown period during which S-974 may be operated without ammonia injection at A-31, No. 3 HDS Selective Catalytic Reduction Unit, shall not exceed 72 hours per start-up or shutdown. For S-974, the total combined start-up and shutdown time shall not exceed 144 hours during any rolling 12 consecutive month period. During the start up or shutdown period for S-974, NOx emissions from S-974 shall not exceed 146 pounds during any rolling 24 consecutive hour period. During the start up or shutdown period for S-974, NOx emissions from S-973 and S-974 combined (when there is one combined emission point for S-973 and S-974) shall not exceed 146 pounds during any rolling 24 consecutive hour period. For S-974, sum total NOx emissions occurring during start up and shutdown shall not exceed 876 pounds during any rolling 12 consecutive month period. NOx emissions from S-973 and S-974 combined (when there is one combined emission point for S-973 and S-974) shall not exceed 876 pounds during any rolling 12 consecutive month period.
(basis: cumulative increase, offsets)

A2B. Permittee/Owner/Operator shall begin ammonia injection at A-31 as soon as the temperature of the exhaust at the inlet of A-31 reaches 530 degrees Fahrenheit.
(basis: cumulative increase, offsets)

A8. ~~Deleted. (NOx CEM installed on S908. Semiannual CO Source Test required in Condition 18372, Part 34.) Within 60 days of the installation of low NOx burners in Furnace S-908, Permittee/Owner/Operator shall conduct a District-approved source test for NOx and CO emissions on that furnace to determine compliance with Condition Part No. 6. After the installation of low NOx burners, NOx and CO source tests will be conducted annually on this furnace. (basis: cumulative increase, BACT)~~

A10. ~~Completed. (All new valves in volatile hydrocarbon service or ammonia service installed for Permit 3318 were "low emission" valves as specified.)~~ Permittee/Owner/Operator shall ensure that any new valves in volatile hydrocarbon service (i.e. handling material above 0.5 psia true vapor pressure) or ammonia service associated with this project shall be "low emission" valves. For the purposes of this permit, "low emission" valves are one of the following: 1) live loaded valves, 2) bellows valves, 3) diaphragm valves, or 4) other valve approved by the APCO, in writing. (basis: cumulative increase)

A11. ~~Deleted. (Final fugitive component count not required because POC emissions Cap not changed.)~~ ~~Completed. (Final fugitive component count provided as required by Permit Application 3318 prior to issuance of Permit to Operate.)~~ Permittee/Owner/Operator shall provide the District with the exact number, by unit, of new valves, flanges, pumps, compressors, and relief valves in volatile hydrocarbon service (i.e. handling material above 0.5 psia vapor pressure) prior to the issuance of the permit to operate. (basis: cumulative increase)

- A12. ~~Deleted. (Completed. All new pumps in volatile hydrocarbon service installed for Permit 3318 were Any new pumps in volatile hydrocarbon service (i.e. handling material above 0.5 psia vapor pressure) or ammonia service associated with this project shall have~~ double mechanical seals with a barrier fluid which either: 1) is at a higher pressure than the seal pressure, or 2) is vented to a closed system, or 3) ~~shall install~~ an equivalent sealing system approved by the APCO. ~~(basis: cumulative increase, BACT, offsets)~~
- A13. ~~Completed. (Permittee/Owner/Operator shall installed~~ at least one magnetically-driven pump or equivalent equipment approved by the APCO.) ~~(basis: cumulative increase, offsets, BACT)~~
- A14. ~~Completed, (Permittee/Owner/Operator shall has implemented~~ an inspection and maintenance program for all pumps, compressors, valves, and flanges associated with this project in accordance with District Regulations 18, 25, and 28.) ~~with the following revisions:~~
- ~~a. All accessible pumps, compressors, valves, and flanges shall be subject to quarterly inspection and maintenance criteria;~~
 - ~~b. The leak limitation shall be 1,000 ppm (expressed as methane) measured above background, 1 cm from the source;~~
 - ~~c. Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations.~~
- ~~(basis: Regulation 8-18, Regulation 8-25, Regulation 8-28)~~
- A16. For the purposes of these permit conditions, all source testing and monitoring requirements will be subject to the following general provisions:
- a. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO.
 - b. ~~Deleted. (Authority to Construct requirement to submit CEM specifications and plans for approval has been completed.) Prior to commencement of construction, Permittee/Owner/Operator shall submit plans and specifications for the Continuous Emission Monitor (CEM) to the District's Source Test Section and obtain approval.~~
 - c. ~~Deleted. (Authority to Construct requirement to submit plans showing sampling facilities for approval has been completed.) Prior to commencement of construction, Permittee/Owner/Operator shall submit plans showing the details of sampling facilities to the District's Source Test Section and obtain approval.~~
- ~~(basis: MOP Volume IV)~~
- A17. The mitigation measures in the Mitigation Monitoring Program for which the District is listed as the Responsible Entity are considered to be permit conditions for Permittee/Owner/Operator for the purposes of this Authority to Construct. These mitigation measures are specified in the Mitigated Negative Declaration adopted by the District on December 16, 1991. (basis: cumulative increase, offsets)

MODIFIED PERMIT CONDITIONS FROM PERMIT NO. 22769 (THE NO. 3 HDS PERMIT)
ADOPTED HERE FOR THIS PERMIT NO. 3318:

B1. Definitions.

- a. "Permitted annual emissions" shall mean the allowable emissions for a calendar year authorized by these conditions.
 - b. "Total annual emissions" shall mean the actual emissions which occur in any calendar year.
 - c. "Total monthly emissions" shall mean the actual emissions which occur in any calendar month.
 - d. "Calendar day" (CD) of "calendar day basis" shall mean an average value determined by dividing the yearly total by 365.
 - e. "Stream day" (SD) or "stream day basis" shall mean the total value occurring on any one 24-hour day, from midnight to midnight, and is the actual daily rate.
 - f. "Calendar month" shall mean any month of the year measured from 12:01 A.M. on the first day of that month to midnight on the last day of that month.
 - g. "Calendar year" or "year" shall mean the year measured from 12:01 A.M., January 1 to midnight, December 31.
 - h. "permitted Monthly Maximum Emissions" shall mean the maximum allowable emissions for any calendar month authorized by these conditions.
 - i. "Permitted Monthly Compensatory Emissions" shall mean the allowable emissions in a calendar month before compensatory emission reductions are required.
 - j. "Startup" shall mean that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate startup times for certain units. If approved by the APCO, these specific startup times will be used in place of the standard 8 hour time period for the given units.
 - k. "Shutdown" shall mean that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps of operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate shutdown times for certain units. If approved by the APCO, these specific shutdown times will be used in place of the standard 8 hour time period for the given units.
 - l. "Light hydrocarbon service" shall mean the handling or service of liquid of gas-liquid streams with a true vapor pressure greater than 0.5 psia.
- (basis: definitions)

B2. Emissions. The specific emission points covered by the various limitations listed in B2A-B2D below are set forth in Table A of the Appendix to these Conditions.

- A. Listed below are the permitted annual emission limits for the emission points covered by this permit. If the permitted annual emission limit for any pollutant is exceeded, the applicable provisions of Section B3A shall apply.

Particulates	443	tons/year
Hydrocarbons	221.796	tons/year *
NOx	31822867.7	tons/year **
SO2	4580	tons/year
CO	551573	tons/year ***

~~* To be reduced by 27.8 tons/yr as of July 1, 1991, in accordance with the requirements of Regulation 8, Rule 46 (Marine Lightering). To be reduced by 1.65 tons/yr upon startup of the No. 2 Hydrogen Plant.~~

~~** To be reduced by 58.2 tons/yr upon startup of the No. 2 Hydrogen Plant.~~

~~*** To be increased by 22 tons/yr upon startup of the No. 2 Hydrogen Plant.~~
(basis: cumulative increase)

- B. Listed below are the permitted monthly maximum emission limits for the emission points covered by this permit. If the permitted monthly maximum emission limit for any pollutant is exceeded, the applicable provisions of Section B3B shall apply.

Particulates	46	tons/month
Hydrocarbons	77	tons/month
NOx	346339.67	tons/month *
SO2	684	tons/month
CO	54.957	tons/month **

~~* To be reduced by 6.33 tons/mo upon startup of the No. 2 Hydrogen Plant.~~

~~** To be increased by 2.2 tons/yr upon startup of the No. 2 Hydrogen Plant.~~
(basis: cumulative increase)

- C. Listed below are the permitted monthly compensatory emission limits applicable to the emission points covered by this permit and Permittee/Owner/Operator shall ensure that the emission limits are met. If the permitted monthly compensatory emission limit for any pollutant is exceeded, the applicable provisions of Section B3C shall apply.

Particulates	42	tons/month
CO	49.1	tons/month

(basis: cumulative increase, BACT, offsets)

- D. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted annual emissions prorated to the number of months elapsed so far that year plus the amounts set forth below, the informational requirements of Section B3D shall apply.

Particulates	9 tons
Hydrocarbons	35 tons
NOx	69 tons
SO2	258 tons
CO	8.1 tons

(basis: cumulative increase, offsets)

- E. The limits set forth in B2A & B2B above are legal limits which must not be exceeded. Accordingly, in the event that any such limit ever is exceeded, Permittee/Owner/Operator will be immediately subject to the applicable sanctions in Section B3 below.
(basis: cumulative increase, offsets)

B3. Emission Reductions. The following conditions will apply as appropriate, when any of the various permitted emission limits set forth in Section B2 above are exceeded.

- A. If any of the permitted annual emission limits of B2 are exceeded, the following conditions shall apply:
- i. Permittee/Owner/Operator shall install and maintain on a permanent basis abatement equipment as specified in the Environmental Management Plan (or such other abatement measures approved by the Air Pollution Control Officer which will achieve equivalent emission reductions), 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 limits in Condition B2A will be reduced accordingly;
 - ii. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions required under subsection B3A.i. are achieved; and
 - iii. the permitted annual emissions 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 subsection B3A.i. above are achieved.
- (basis: cumulative increase, offsets, bubble)

- B. If any of the permitted monthly maximum emission limits of B2B are exceeded, the following conditions shall apply:
- i. The excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2B 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 will be charged once against the current calendar year and once against the following calendar year;
- ii. Permittee/Owner/Operator shall either (a) install and maintain on a permanent basis abatement equipment or take measures which will achieve equivalent emission reductions as specified in the Environmental Management Plan to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per month by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per month); or (b) take such other abatement measures approved by the Air Pollution Control Officer which will prevent a recurrence of the type of incident which caused the excess; and
 - iii. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions or other measures required under subsection B3B.i. above are achieved. (basis: cumulative increase, offsets)
- C. If any of the permitted monthly compensatory emission limits of B2C are exceeded, then the excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2C 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 will 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 subsection B3B above are not triggered. (basis: cumulative increase, offsets)
- D. If any of the limits of B2D are exceeded, Permittee/Owner/Operator shall submit to the District within 30 days of the end of that calendar month a revised Environmental Management Plan in accordance with Section B14 below, which shall indicate the steps to be taken to assure that the permitted annual emission limits in B2A will be met for that calendar year. (basis: cumulative increase, offsets)
- E. Reductions of hydrocarbon may be used to offset increases NO_x at a ratio of 1:1, provided that Permittee/Owner/Operator 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, as defined in Section 2-2-206 of the District's Rules and Regulations. (basis: cumulative increase, offsets)
- F. In the event that Permittee/Owner/Operator installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will

achieve equivalent permanent emission reductions) pursuant to subsection B3B.ii.(a) above, any such emission reductions will be credited towards emission reductions which may be required under subsection B3A.i. above for that same calendar year, provided the generation of offsets complies with applicable requirements of the SIP adopted version of Regulation 2, Rule 2. (basis: cumulative increase, offsets)

- B4. Monitoring. The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Permittee/Owner/Operator:
- A. An instrument to continuously monitor and record the H2S concentrations in fuel gas. being fed to the following new or modified units, which will be required to comply with the New Source Performance Standard for the burning of fuel gas (0.23 grams of H2S/dry standard m3 on a 3-hour average basis):
- No. 3 HDS Recycle Gas Heater, S-973
 - No. 3 HDS Fractionator Feed Heater, S-974
 - ~~FCCU Preheat Furnace, S-991~~
 - ~~_____~~ Nos. 51, 53, and 54 Furnaces (S-951, S-971, and S-972, respectively)
(basis: NSPS)
- B. An instrument to continuously monitor nitrogen oxide emissions and oxygen concentration in the flue gas from the following units:
- No. 3 HDS Recycle Gas Heater, S-973
 - No. 3 HDS Fractionator Feed Heater, S-974
 - ~~FCCU Preheat Furnace, S-991~~
 - ~~No. 2 H2 Plant Reforming Furnace, S-1031~~
 - ~~No. 2 H2 Plant NH3 Dissociation Furnace, S-1032~~
 - ~~_____~~ No. 3 Crude Unit, No. 8 Furnace, S-908
 - ~~Hydrocracker Stabilizer Reboiler (F34), S-934~~
 - ~~Hydrocracker Splitter Reboiler (F35), S-935~~
 - ~~No. 5 Gas Plant Debutanizer Reboiler, S-922~~
 - (basis: cumulative increase, offsets)
- C. An instrument to continuously or sequentially monitor stack oxygen concentrations on each of, and an instrument to monitor fuel usage by, the following units:
- ~~#3 Crude Unit - Furnace #8, S-908,~~
 - #1 Feed Prep. - Furnace #9, S-909,
 - ~~#4 Gas Plant - Furnace #10, S-910,~~
 - #1 Feed Prep. - Furnace #12, S-912,
 - #2 Feed Prep. - Furnace #13, S-913,
 - #1 HDS - #16 Heater, S-916,

#1 HDS - #17 Prefractionator Reboiler, S-917,
~~#2 HDS - Depentanizer Reboiler - #19 Furnace, S-919,~~
#2 HDS - #20 Charge Heater, S-920,
#2 HDS - #21 Charge Heater, S-921,
HDN Reactor - #28 Furnace, S-928,
HDN Reactor - #29 Furnace, S-929,
HDN Reactor - #30 Furnace, S-930,
Hydrocracker - #31 Furnace, S-931,
Hydrocracker - #32 Furnace, S-932,
Hydrocracker - #33 Furnace, S-933,
~~Hydrocracker - #34 Furnace, S-934,~~
~~Hydrocracker - #35 Furnace, S-935,~~
~~Hydrogen Plant, Steam Reformer, #37 Furnace, S-937,~~
~~HDN Prefractionator, #38 Furnace, S-938~~
(basis: cumulative increase, offsets)

To the extent that it is technologically feasible to do so, ~~a-All~~ of the required stack oxygen concentration monitors shall be equipped with oxygen analyzer controlled by feedback systems set at oxygen levels which will yield the minimum amount of nitrogen oxides while still achieving complete combustion. If such feedback systems are not feasible for any of these units, Permittee/Owner/Operator shall substitute alternative controls to be approved by the Air Pollution Control Officer, which will achieve the levels of NOx control equivalent to those specified in B7C below.

(basis: cumulative increase, offsets)

D. All other instruments listed on Table D of the Appendix to these Conditions, which are not specifically referred to in B4A-B4C above.
(basis: cumulative increase, offsets)

B5. Reporting and Record Keeping. The following conditions will document Permittee's/Owner's/Operator's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10- 1-402 of District regulations. These reporting requirements do not eliminate the need to comply with any other District reporting and record keeping requirements.

A. Permittee/Owner/Operator 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 conditional permit, as well as all other data and calculations necessary to determine actual emissions from all emission points covered by this permit. This file, which may contain confidential or proprietary data, shall include, but not be limited to: the data collected from all in-stack monitoring instruments, the records on fuel input rates and relevant records of crude oil and other hydrocarbons processed. Estimates of emissions from all units covered by this permit which are included under the limits set forth in Section B2 above shall be calculated in

accordance with Tables B & C of the Appendix to these Conditions. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets)

B. Permittee/Owner/Operator shall make a monthly report to the District, within 30 days after the end of each month, which shall specify the emissions from all operations covered by this permit during the previous month, and shall state in detail the basis therefore. The reporting format for such reports shall be structured so as to enable the Air Pollution Control Officer to readily determine compliance with the provisions of this Conditional Permit, and shall be subject to the approval of the APCO. Any computer programs utilized by Permittee/Owner/Operator to calculate emissions from any operations covered by this permit shall also be subject to the approval of the APCO. (basis: cumulative increase, offsets)

C. Permittee/Owner/Operator shall conduct monthly audits of all emission and fuel rate monitoring systems required under Section B4 above to insure that instrument accuracy is maintained. Permittee/Owner/Operator shall promptly repair all malfunctioning systems and replace any system that has a chronic problem. A record of the results of all such audits shall be maintained as part of the file required under B5A. above. (basis: cumulative increase, offsets)

B6. Process Unit Design.

- A. The design feed rate to the Ammonia Recovery Plant shall be at least 75 tons/day. (basis: cumulative increase)
- B. 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
#3 HDS Unit, S-850	70,000 barrels/stream day
Merox Unit, S-848	55,000 barrels/stream day

(basis: cumulative increase, offsets)

These units shall be designed and build in accordance with the above specifications, and total annual 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. (basis: cumulative increase, offsets)

~~B.C.~~ The No. 3 HDS Unit (S-850) shall not process more than 70,000 barrels per stream day. (basis: cumulative increase, offsets)

~~D.~~ Deleted. (S848 no longer in service.)~~The FCCU Merox Unit (S-848) shall not process more than 55,000 barrels per stream day. (basis: cumulative increase, offsets)~~

B7. Combustion Controls.

- A. ~~Except during start ups and shutdowns, the nitrogen oxides in the flue gases from the first three units listed in 4B above (S-973 and, S-974, and 991) shall not exceed 40 ppm as NO₂ corrected to 3% oxygen averaged over any 8 hour period~~
Except during periods of startup or shutdown, emissions of nitrogen oxides (calculated as NO₂) and carbon monoxide shall not exceed the following limits.

<u>NOx (ppmvd)</u>	<u>CO (ppmvd)</u>	<u>Unit(s)</u>
<u>10</u>	<u>50</u>	<u>S-908</u>
<u>40</u>	<u>50</u>	<u>S-973 and S-974</u>
<u>60</u>	<u>50</u>	<u>S-917, S-919, S-922, S-927, S-934 & S-935</u>
<u>75</u>	<u>50</u>	<u>S-971 and S-972</u>

Except for S-908, these limits shall be based on an 8 hour average and corrected to 3% excess oxygen on a dry basis. For S-908, the limit shall be based on a 3 (three) hour average and corrected to 3% excess oxygen.

-(basis: cumulative increase, offsets, BACT)

- B. The sum of the maximum firing rates of the first ~~three~~ two units listed in B4B above (~~S-973 and, S-974, and 991~~) shall not exceed ~~159-123 x 106~~ MMBTU/hr. (basis: cumulative increase, offsets)
- C. For the furnaces listed in B4C above, Permittee/Owner/Operator shall demonstrate by source tests and calculations that, in the aggregate, NOx emissions do not exceed 160 lb. NOx per billion BTUs heat input when firing refinery fuel gas at, or as nearly as practicable to the maximum daily firing rates which occurred during the previous 6 months. Such demonstration shall be made ~~at least 90 days prior to startup of the No. 3 HDS Unit and~~ thereafter. If aggregate emissions from these units exceed 160 lb. NOx per billion BTU heat input, Permittee/Owner/Operator will install additional controls on other refinery units at the Avon Refinery so as to achieve the same amount of control that would be obtained if all of the units listed in B4C did achieve, in the aggregate, an emission rate of 160 lb. NOx/billion BTU heat input. (basis: cumulative increase, offsets)
- D. For the furnaces ~~deleted from B4C above, namely sources 908, S917 and, S919, 934, 935, and 937~~, Permittee/Owner/Operator shall demonstrate by source test that NOx and CO emissions do not exceed 60 ppmvd, and 50 ppmv at 3% oxygen, averaged over 8 hours, respectively, when firing refinery fuel gas at, or as nearly as practicable to the maximum daily firing rates which occurred during the previous 6 months. Such demonstration shall be made annually. -(basis: cumulative increase, offsets)

B8. Hydrocarbon Controls.

- A. All new compressor seals in hydrocarbon service associated with this project shall be vented to a closed gas system, except for two high purity hydrogen make-up compressors at the new No. 3 HDS Unit. The vapors from the seals

on the three (3) existing compressors S-952, S-953, and S-954 shall be collected and vented directly to the compressor inlets, or a closed gas system. (basis: cumulative increase, offsets, BACT)

- B. All new pumps in light hydrocarbon service associated with this project shall be equipped with double mechanical seals, or Permittee/Owner/Operator shall retrofit other existing pumps with double mechanical seals so as to achieve the same amount of emission reductions that would be obtained by installing such seals on all of the new pumps referenced above. (basis: cumulative increase, offsets, BACT)
- C. Hydrocarbon vapors associated with ~~the two new 80,000 bbl cone roof tanks, S-1022 and S-1023 and~~ the two (2) existing tanks S-57 and S-323 shall be controlled by venting to the vapor recovery system, and tanks S- 57 ~~and S-323~~ may only store or contain materials which have a vapor pressure of 1.5 psia or less. This condition is in place to assure that offsets provided as part of Application No. 27769 are permanent. S-323 was modified via 2004 Application 10667. See Condition 13605. (basis: cumulative increase, offsets, BACT)
- D. In the event that No. 4 Gas Plant modifications are not constructed, Permittee/Owner/Operator shall retrofit eight (8) pumps in light hydrocarbon service with double mechanical seals or equivalent. In the event that the hydrogen recovery unit is not completed, Permittee/Owner/Operator shall receive a credit of three (3) lb per calendar day against the total fugitive hydrocarbon emissions as listed in Table E of the Appendix to this Conditional Permit. (basis: cumulative increase, offsets)

B9. Sulfur Recovery Facilities.

- A. Within 48 months of the issuance of the Authority to Construct upon which this Conditional Permit is based, the Clause unit at the sulfur Recovery facility shall be in final compliance with the substantive requirements of Section 9-1-305.4 of the District's Rules and Regulations, which will require such unit to achieve a sulfur removal efficiency that will result in emission of no more than 4 pounds of SO₂ per ton of sulfur processed. This limitation shall be achieved by means of the installation at the Claus unit of a new tail gas unit with a minimum capacity adequate to achieve this degree of control. In the event that the Authority to Construct upon which this Conditional Permit is based is challenged or appealed before the District's Hearing Board or before any court of competent jurisdiction, the deadline for final compliance set forth hereinabove will be extended until 48 months after the final judicial or quasi-judicial resolution of any such challenge or appeal; but, in no such event shall such deadline be extended beyond January 1, 1989.
- B. In emergency situations where the entire sulfur removal capability of the sulfur recovery facility is not operating, the refinery shall take immediate actions to assure that total SO₂ emissions from both the refinery and the sulfur

recovery facility will not exceed 29 tons/stream day. These actions shall include, not need not be limited to, the following:

- i. Condense and store foul water stripper overhead.
- ii. Discontinue burning of coke at No. 6 Boiler.
- iii. Reduce Hydrocracker-HDN feed rate to 12,000 bbl/stream day.
- iv. Discontinue burning of fuel oil, except as required to maintain combustion stability and operating safety of the No. 5 and No. 6 Boilers.
- v. Reduce feed rate to the Coker and to the FCCU, and use all available de-sulfurized feed-stock as FCCU feed.
- vi. Shut off feed to No. 1, No. 2, and No. 3 HDS Units and "hot sweep" the reactors.
- vii. If any emission monitor for SO₂ is not operating properly, conduct a daily source test for the source in question. Such source tests shall consist of three continuous 30 minute measurements, taken at least 30 minutes apart, of the SO₂ concentration and stack gas flow rates. The average of these three measurements shall be used as the basis for establishing SO₂ emissions for purposes of calculation.
- viii. Calculate the emissions of SO₂ from all flares at the refinery, and report same to the District as part of the next monthly report required under B5B above.
- ix. Report this event to the BAAQMD by telephone as soon as possible with due regard to safety, and submit a written follow-up, detailing the specific measures taken by Permittee/Owner/Operator to control SO₂ emissions during the event, as part of the next monthly report required under B5B above.

Measures other than those referred to in i.-vi. above, may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 29 tons/stream day. (basis: cumulative increase, offsets)

- C. When the Sulfur Plant is shutdown and Acid Plant is operating, the refinery will immediately take the following actions to insure the H₂S going to the sulfur recovery facility is within the capacity of the Acid Plant under then-current operating conditions, and will not result in the emissions or more than 23 tons/stream day of SO₂ from both the refinery and the sulfur recovery facility.
 - i. Condense and store sufficient foul water stripper overhead, and/or
 - ii. Reduce feed rate to the Hydrocracker-HDN, and/or
 - iii. Reduce feed rate to the Coker, and/or
 - iv. Reduce feed rate to the No. 1 HDS Unit, and/or
 - v. Reduce feed rate to the No. 2 HDS Unit, and/or
 - vi. Reduce feed rate to the No. 3 HDS Unit.

- vii. Calculate the emissions of SO₂ from all flares at the refinery, and report same to the District as part of the next monthly report required under B5B above.
- viii. Report this event to the BAAQMD by telephone, within one (1) working day, and submit a written follow-up, detailing the measures taken to control SO₂ emissions during the event, as part of the next monthly report required under B5B above.

Measures other than those referred to in i.- vi. above may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 23 tons/stream day. (basis: cumulative increase, offsets)

B10. Access.

- A. The APCO or his representatives and the U. S. Environmental Protection Agency shall have access to appropriate portions of the refinery and wharf, to conduct source tests or inspections in accordance with Section 1-440 of the District's Rules and Regulations, and the provisions of the Clean Air Act.
- B. The APCO or his representatives and the U. S. Environmental Protection Agency shall have the right to inspect and audit all records which are required to be maintained by Section-Part B5 above, and any other records in Permittee's/Owner's/Operator's possession which will disclose the nature of quantity of emissions from refinery and marine operations.

(basis: cumulative increase, offsets)

B11. Enforcement.

Violation by Permittee/Owner/Operator of any of the conditions set forth in this Conditional Permit shall subject Permittee/Owner/Operator 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. 7401, et seq.). As appropriate, each and every such violation shall be deemed to be a discrete and separate violation with respect to which the District will be entitled to take legal action. (basis: cumulative increase, offsets)

B12. Miscellaneous.

- A. No. 1 Isomerization Unit shall be dismantled within ninety (90) days after start-up of the No. 3 HDS Unit.
- B. Tanks A-142 and A-319 shall be dismantled within ninety (90) days prior to start-up of the NO. 3 HDS Unit.
- C. All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this Conditional Permit shall at all times be maintained in good working order and be operated with

- due regard for the goal of complying with the terms and conditions of this permit and with all applicable District regulations.
- D. Nothing in these conditions shall be construed to allow the violation of any law or of any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.
 - E. Any emission reductions which Permittee/Owner/Operator may be required to undertake in accordance with [Section-Part B3](#) above shall not be eligible to be credited as emission reductions against any subsequent projects for purposes of calculating "cumulative increases", nor shall they be eligible to be "banked" in accordance with the District's New Source Review Rule. However, any emission reductions which Permittee/Owner/Operator achieves in accordance with the Rules and Regulations of the District, above and beyond those reductions required pursuant to this Conditional Permit, may be so credited or "banked".
 - F. In the event of changes in District regulations which will require actual reductions in the amount of emissions from existing sources which would otherwise be allowed under the terms of this Conditional Permit, the annual limits set forth in [Section-Part B2](#) above shall be reduced by the APCO by an amount equivalent to what would be required under any such rule change.
 - G. The baseline emissions for purposes of the permit analysis of any proposed new or modified units, which may in the future be proposed to be built by Permittee/Owner/Operator within the boundaries of the [Avon-Golden Eagle Refinery](#), will be the limits set forth in [Section-Part B2A](#) above, as may be amended to reflect subsequent revisions to District rules pursuant to [Section Part B12F](#) or subsequent deposits to or withdrawals from the District's emissions bank, rather than actual emissions after the baseline period of 1977-1979 (which was used as the basis for issuance of this permit), if doing so is allowed pursuant to the SIP adopted version Section 604.2 of Regulation 2, Rule 2.
 - H. In the course of constructing the project covered by this Conditional Permit, Permittee/Owner/Operator shall install no more valves, pumps, flanges, process drains and compressors for this project than are listed in Table E of the Appendix to this Permit, unless the emissions associated therewith are accompanied by intra-source emission reductions on a 1:1 basis. Permittee/Owner/Operator shall provide written confirmation of compliance with this condition within 90 days after the start-up of the new No. 3 HDS Unit.
 - I. Permittee/Owner/Operator shall apply for a permit when any tanks presently out of service or presently in exempt service are proposed to be placed in nonexempt service. The emissions from any such tanks shall be calculated and, if applicable, shall be subject to the requirements of G. above.
 - J. Instrument downtime (including, but not limited to, in-stack 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 shall be determined by reference to the recorded value for that instrument from the last calendar day (or other relevant period) immediately preceding the day on which the instrument in question became inoperable, for which there was a valid reading, unless the Air Pollution Control Officer determines on the basis of other evidence (such as, but not limited to, the results of source tests conducted during the period in which the instrument is not operating, or changes in operating conditions of the unit in question) that some other value more reasonably reflects the actual emissions during the period in question.

- K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions or other causes for which a variance, an interim variance, or an emergency 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 Part B2~~ above; provided, however, that this provision shall not excuse Permittee/Owner/Operator from the obligation to report to the District pursuant to B5B above the actual emissions from the emission points covered by this permit during the period covered by any such relief. This part (part B12K) of this condition is not federally enforceable.
- L. If Permittee/Owner/Operator can demonstrate by modeling to the satisfaction of the Air Pollution Control Officer, consistent with the requirements of the SIP adopted version of Regulation 2, Rule 2 and applicable provisions of the federal Code of Regulations, that increased emissions of carbon monoxide from all emission points covered by this permit will not interfere with the attainment or maintenance of all applicable air quality standards for CO within the District, then the various limits for carbon monoxide set forth in ~~Section Part B2~~ of this permit shall be adjusted accordingly.
(basis: cumulative increase, offsets)

B13. Severability. The provisions of this Conditional Permit 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 Permit shall not be affected thereby. (basis: cumulative increase, offsets)

B14. Environmental Management Plan. Sixty days prior to start-up of the No. 2 Hydrogen Plant (S-994) HDS Unit, an initial Environmental Management Plan (EMP) shall be submitted to the District for review by the Air Pollution Control Officer. (basis: cumulative increase, offsets)

This plan shall specify how Permittee/Owner/Operator will assure that the permitted annual and monthly maximum emission limits set forth in ~~Sections Parts B2A and B2B~~

above will not be exceeded, and also shall describe feasible options for providing emissions reductions which would be required under [Section-Part B3](#) above, if any of the emissions limits of [Sections-Parts B2A](#) and [B2B](#) were exceeded. The options to be described shall include the installation of various types of abatement equipment which would achieve permanent offsets, and the adoption by Permittee/Owner/Operator of various operational limitations and other short-term control measures which would limit emissions. Both long-term and short-term control options shall be discussed. The purpose of this plan is to provide assurance that Permittee/Owner/Operator is capable of taking all reasonable steps to assure that the various limits established by this Conditional Permit will be complied with, and to expedite any installation of abatement equipment if it is ever required.

The EMP shall be updated and resubmitted to the District for review by the APCO, whenever any of the limits set forth in [Section-Part B2D](#) above are exceeded, or within 1 year after the most recent EMP submittal, whichever comes first. However, in the event that EMP submittal is triggered by an excess of any of the limits of [Section-Part B2D](#), that resubmittal shall also describe in detail the means by which Permittee/Owner/Operator will assure that the permitted annual emissions limit of [Section-Part B2A](#) will not be exceeded for that calendar year, and shall describe in detail specific control techniques available, and the sources to which they would be most applicable, in the event that permanent offsets were needed.

To the extent that any EMP submittal contains confidential information, such information shall be afforded the protection provided by applicable laws, rules and regulations.

Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Permittee/Owner/Operator as expeditiously as practicable. Within 30 days after its receipt of such comments and recommendations, Permittee/Owner/Operator shall either (1) revise the EMP to reflect such comments and recommendations; or (2) attach as an Appendix to the EMP all comments and recommendations which Permittee/Owner/Operator did not include in its EMP revision together with a detailed explanation as to why each comment and recommendation was not adopted or included in the EMP itself.
(basis: cumulative increase, offsets)

CHANGES TO PERMIT NO. 548 (THE HYDROCRACKER EXPANSION PROJECT):

- C1. The HDN/Hydrocracker (S1007, S1008) feed rate shall not exceed 35,000 barrels per calendar day, or 37,000 barrels per stream day. Permittee/Owner/Operator may submit a permit application to change or remove this condition. (basis: cumulative increase, offsets)
- C2. In a District approved log, Permittee/Owner/Operator shall record the throughput of petroleum/VOC feed material to S-1007 in units of barrels per stream day.

Condition # 8350

S1002 No. 1 HDS Unit
S1003 No. 2 HDS Unit
S1006 No. 1 HDA Unit

APPLICATION #6468,

~~AMENDED~~ MODIFIED BY APPLICATION 14325

ADMINISTRATIVELY CHANGED BY APPLICATION 18861 (JUNE 2009) REMOVED
COMPLETED PARTS AND PARTS REDUNDANT WITH DISTRICT REGULATION

DIESEL FUEL MODIFICATION PROJECT PERMIT CONDITION 8350
PERMIT CONDITIONS FOR S-1002, NO. 1 HDS UNIT:

- A1. Permittee/Owner/Operator shall ensure that the No. 1 HDS Unit (S-1002) does not process more than 28,000 barrels of naphtha per day, based on a rolling 365-day average and that not more than 10,220,000 barrels of feed is processed at S-1002 during each 12 consecutive month period. (basis: cumulative increase)
- A2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 5.04 lb/day limit) Total fugitive POC emissions from all new and modified equipment associated with S-1002, No. 1 HDS Unit, shall not exceed 5.04 lb/day, based on a 365 day average emission rate, as calculated in accordance with District procedures. The owner/operator of S-1002, Permittee/Owner/Operator, shall submit a final process flow diagram and a revised pump, compressor, valve, and flange count within 15 days of the start up of S-1002 in order to confirm compliance with this permit condition. If fugitive emissions from this source exceed 5.04 lb/day, then the District may recalculate the cumulative emissions increase attributed to this permit application, and adjust accordingly the refinery emissions cap limits specified in Condition No. 4357-2, before the issuance of the permit to operate.
—— (basis: cumulative increase)
- A3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.) All new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: cumulative increase, BACT)
- A4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements, and other data required to demonstrate compliance with the above

conditions. This file shall include, but is not limited to, the daily throughput of naphtha processed by S-1002 summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded.
(basis:cumulative increase)

PERMIT CONDITIONS FOR S-1003, No. 2 HDS UNIT:

B1. Permittee/Owner/Operator shall ensure that the No. 2 HDS Unit (S-1003) does not process more than 40,000 barrels of diesel per day, based on a rolling 365-day average and that not more than 14,600,000 barrels of feed is processed at S-1003 during each 12 consecutive month period. (basis: cumulative increase)

B2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 4.04 lb/day limit) ~~Total fugitive POC emissions from all new and modified equipment associated with S-1003, No. 2 HDS Unit, shall not exceed 4.04 lb/day, based on a 365 day average emission rate, as calculated in accordance with District procedures. The owner/operator of S-1003, Permittee/Owner/Operator, shall submit a final process flow diagram and a revised pump, compressor, valve, and flange count within 15 days of the start up of S-1003 in order to confirm compliance with this permit condition. If fugitive emissions from this source exceed 4.04 lb/day, then the District may recalculate the cumulative emissions increase attributed to this permit application, and adjust accordingly the refinery emissions cap limits specified in Condition No. 4357-2 before the issuance of the permit to operate.~~
~~(basis: cumulative increase)~~

B3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.) ~~All new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system.~~
~~(basis: cumulative increase, BACT)~~

B4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to, the daily throughput of diesel processed by S-1003, summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase)

PERMIT CONDITIONS FOR S-1006,
NO. 1 REFORMER UNIT TO BE CONVERTED TO NO. 1 HDA UNIT:

- C1. Permittee/Owner/Operator shall ensure that the No. 1 HDA Unit (S-1006) throughput rate does not exceed 20,000 barrels per day, based on a rolling 365- day average and that not more than 7,300,000 barrels of feed is processed at S-1006 during each 12 consecutive month period.. (basis: cumulative increase)
- C2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 0.0 lb/day limit) There will be no new additional fugitive POC sources associated with the conversion of S-1006 from the No. 1 Reformer Unit to the No. HDA Unit. The owner/operator of S-1006, Permittee/Owner/Operator, shall submit a final process flow diagram and a revised pump, compressor, valve, and flange count within 15 days of the start up of S-1006 in order to confirm compliance with this permit condition. If there are new additional fugitive POC sources, then the District shall recalculate the cumulative emissions increase attributed to this permit application, and adjust accordingly the refinery emissions cap limits specified in Condition ID-4357, part 2, before the issuance of the permit to operate.
—— (basis: cumulative increase)
- C3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.) Permittee/Owner/Operator shall ensure that all new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system.
—— (basis: cumulative increase, BACT)
- C4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to, the No. 1 HDA Unit (S-9006) throughput rate, summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded.
(basis: cumulative increase)

Condition # 8516

313 Tank A-313

315 Tank A-315

PERMIT CONDITIONS FOR S-313 AND S-315, INTERNAL FLOATING ROOF STORAGE TANKS:
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK

CONDITIONS

1. ~~The floating roofs and primary and secondary seals installed on storage tanks S-313 and S-315 must meet the design specifications and seal gap requirements of strict Regulation 8, Rule 5 for an internal floating roof tank with riveted shell and~~

~~metallic shoe primary seal and secondary wiper seal. (basis: cumulative increase, Regulation 8-5)~~

- ~~2. To verify compliance with Condition #1 above, the owner/operator of S-313 and S-315 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For each seal, the time interval between such certifications shall not exceed 10 years. (basis: cumulative increase, Regulation 8-5)~~

Condition # 8517

S641 Tank A-641

S707 Tank 113 A-707

PERMIT CONDITIONS FOR S-641 AND S-707, EXTERNAL-FLOATING ROOF STORAGE TANKS: APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

- ~~1. Permittee/Owner/Operator shall ensure that the floating roofs and primary and secondary seals installed on storage tanks S-641 and S-707 meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an external floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: Regulation 8-5)~~
- ~~2. To verify compliance with Condition #1 above, the Permittee/Owner/Operator of S-641 and S-701 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For secondary seals, Permittee/Owner/Operator shall ensure that this certification is submitted to the District on an annual basis. Permittee/Owner/Operator shall ensure that the time interval between such certifications does not exceed 15 months. For primary seals, Permittee/Owner/Operator shall ensure that the certification is submitted to the District at least once every 5 years. (basis: Regulation 8-5)~~

Condition # 8535

S-1404 Sulfur Storage Tank A-756

CONDITIONS FOR S-1404 AND A-1422, PLANT # 1314628

1. The particulate emissions from the outlet of scrubber A-1422 shall not exceed 0.01 g/dscf. (basis: cumulative increase)

2. Sulfur storage tank, S-1404 shall not operate unless it is abated by scrubber A-1422 properly operating as designed, as needed to prevent visible emissions. (basis: cumulative increase, Regulation 6-1-301)
3. The owner/operator of scrubber A-1422 shall install and maintain a pressure drop monitor, and maintain a pressure drop of at least 9 inches water gauge across the scrubber. (basis: cumulative increase)

Condition # 8538

S714 Tank A-714

APPLICATION 16050: CONDITIONS FOR TANK S-714 AND CAUSTIC SCRUBBER A-714:

1. Spent acid storage tank S-714 shall not operate unless it is abated by caustic scrubber A-714 and refinery vapor recovery system A-14, all operating properly as designed. (basis: cumulative increase)
 2. Refinery vapor recovery system A-14 shall have a minimum precursor organic compound control efficiency of 98%, on a mass basis.
 3. Only spent acid and associated organic material from the refinery alkylation unit shall be stored in tank S-714 unless the owner/operator of S-714 has received prior, written authorization from the District for an alternate material(s). (basis: cumulative increase)
 4. The true vapor pressure of the materials stored in tank S-714 shall not exceed 11 psia. (basis: cumulative increase)
 5. The total material throughput for tank S-714 shall not exceed 500,000 barrels during any consecutive 12-month period. (basis: cumulative increase)
 6. To demonstrate compliance with Condition Nos. 3, 4, and 5, the owner/operator of S-714 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District staff inspection upon request for a period of 5 years from the date that the record was made (Basis: recordkeeping):
 - a. The types of material stored and the dates that the materials were stored.
 - b. The total throughput of each material stored, summarized on a monthly basis.
 7. Deleted. Credits surrendered 10/19/1999.
-
2. ~~Permittee/Owner/Operator shall implement an Inspection and Maintenance program for fugitive POC emissions from all new pumps, compressors, valves and flanges associated with this project in accordance with District Regulation 8, Rules 18, 25, and 28 with the following revisions:~~
 - a. ~~All accessible pumps, compressors, valves, and flanges shall be subject to quarterly inspection and maintenance criteria;~~
 - b. ~~The leak limitation for pumps and compressors shall be 500 ppm (expressed as methane) measured above background, 1 cm from the source; the leak limitation for~~

valves and flanges shall be 100 ppm (expressed as methane) measured above background, 1 cm from the source;

c. Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations.

Any future revisions to and/or future requirements of Regulation 8, Rules 18, 25, or 28 shall supersede the above listed requirements only if the new Rule requirement is more stringent than the above criteria.

(basis: Regulation 8-18, Regulation 8-25, Regulation 8-28)

3. All new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: Regulation 8-28)

Condition # 8548 ~~Superseded by Condition 10696~~

Application 12205 (1993) Replacement of S655 and S657

~~S529 Tank A-529~~

~~S530 Tank A-530~~

~~S655 Tank A-655~~

~~S657 Tank A-657~~

~~S815 No. 1 Feed Prep Unit~~

~~S816 No. 2 Feed Prep Unit~~

~~S817 No. 3 Crude Unit~~

~~Permit Conditions For Vapor Recovery System At Foul Water Stripper Charge System A-12:~~

~~1. Volatile organic compound emissions from sources S-815, S-816, S-817, S-529, S-530, S-655, and S-657 shall be abated at all times by the vapor recovery system at the foul water stripper charge system A-12 operating in conjunction with the No. 5 Gas Plant and the refinery flare gas recovery system, with an overall abatement efficiency of at least 95%. (basis: Reg. 1-301, toxics)~~

~~2. Permittee/Owner/Operator shall implement an Inspection and Maintenance program for fugitive POC emissions from all new pumps, compressors, valves and flanges associated with this project in accordance with District Regulation 8, Rules 18, 25, and 28 with the following revisions:~~

~~a. All accessible pumps, compressors, valves, and flanges shall be subject to quarterly inspection and maintenance criteria;~~

~~b. The leak limitation for pumps and compressors shall be 1,000 ppm (expressed as methane) measured above background, 1 cm from the source; the leak limitation for valves and flanges shall be 500 ppm (expressed as methane) measured above background, 1 cm from the source;~~

~~c. Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations.~~

~~(basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)~~

~~Any future revisions to and/or future requirements of Regulation 8, Rules 18, 25, or 28 shall supersede the above listed requirements only if the new Rule requirement is more stringent than the above criteria.~~

- ~~3. All new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: BACT)~~

Condition # 8636

~~PERMIT CONDITIONS FOR S 33, S 134, S 135, S 638, S 640, S 692, S 709, S 710, S 711, S 706, AND S 708, EXTERNAL FLOATING ROOF STORAGE TANKS:~~

~~APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS~~

- ~~1. The floating roofs and primary and secondary seals installed on storage tanks S 33, S 134, S 135, S 640, S 692, S 709, S 710, S 711, S 706, and S 708 must meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an external floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: Regulation 8-5, cumulative increase)~~
- ~~2. To verify compliance with Condition #1 above, the owner/operator of S 33, S 134, S 135, S 640, S 692, S 709, S 710, S 711, S 706, and S 708 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For secondary seals, this certification shall be submitted to the District on an annual basis. The time interval between such certifications shall not exceed 15 months. For primary seals, the certification shall be submitted at least once every 5 years. (basis: Regulation 8-5, cumulative increase)~~

Condition # 9875

Application 10544 (September 1993)

Application 13240 (January, 2006): Correct grandfathered throughput limit in the Title V permit. Make limit a hard limit and update the number of fugitive components.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

S1452 Hydrocarbon Recovery System, which includes 47 oil/water wells, and associated pumps (39 Light Hydrocarbon Pumps and 8 Heavy Hydrocarbon Pumps (exempt), valves and flanges.

1. ~~Deleted. (Redundant with Regulation 8-18.) Deleted. Application XXXXX.~~
The owner/Operator shall implement an inspection and maintenance program for all pumps, valves and flanges in this project accordance with District Regulation 8-18.
 - a. ~~All pumps, valves and flanges shall be subject to quarterly inspection and maintenance criteria~~
 - b. ~~The leak limitation shall be 100 ppm (express as methane) for flanges, 100 ppm (expressed as methane) for process valves, and 500 ppm (expressed as methane) for pump seals, measured above background at 1 cm from the source.~~
 - c. ~~Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations. Any future revision to and/or future requirement of Regulation 8, Rules 18 shall supersede the above listed requirements only if the new Rule requirement is more stringent than the above criteria.~~
(basis: cumulative increase, offsets, Regulation 8-18)
2. ~~Deleted. (Completed. All new above ground pumps installed or replaced at S-1452 are sealless diaphragm type.) Deleted. Application XXXXX.~~ All new above ground pumps installed or replaced at S-1452 shall be, as a minimum, sealless diaphragm type. (basis: cumulative increase, offsets, BACT)
3. ~~Deleted. (Completed. All new valves in light liquid hydrocarbon service installed or replaced at S-1452 are either bellows or diaphragm type.) Deleted. Application XXXXX.~~ All new valves in light liquid hydrocarbon service installed or replaced at S-1452 shall be, as a minimum, either bellows or diaphragm type. (basis: cumulative increase, offsets, BACT)
4. ~~Deleted. (Completed. All new valves in heavy liquid hydrocarbon service installed or replaced at S-1452 are either graphite packing, live loaded, or quarter turn type.) Deleted. Application XXXXX.~~ All new valves in heavy liquid hydrocarbon service installed or replaced at S-1452 shall be, as a minimum, either graphite packing, live loaded, or quarter turn type.
(basis: cumulative increase, offsets, BACT)
5. ~~Completed. (Final fugitive component count provided 12/21/05 and offsets provided via Application 13240.) Deleted. Application XXXXX.~~ Owner/Operator shall apply for a modification to the permit if there is an increase in pumps, valves, and flanges. The Owner/Operator shall provide to the District any required offsets, at the offset ratio triggered at the time of issuance of the modification, for any adjusted cumulative which results in an increase in emissions.
(basis: cumulative increase, offsets)
6. The owner/operator shall not exceed a throughput of oil/water at S-1452 Hydrocarbon Recovery System of 5,000,000 bbl/yr.
(basis: cumulative increase, offsets)

Condition # 10526

~~S782 METHANOL FEED STORAGE TANK~~

~~S1100 MTBE Plant~~

~~APPLICATION #6867~~

~~MTBE PLANT, APPLICATION 17928/17428 — REMOVE DEMOLISHED SOURCES~~

~~PERMIT CONDITION 10526~~

~~PERMIT CONDITIONS FOR S-1100 MTBE PLANT AND S-782 METHANOL
FEED STORAGE TANK:~~

~~APPLICATION XXXX: MTBE REMOVAL~~

~~APPLICATION XXXX (2008) MISCELLANEOUS ADMIN CHANGES~~

~~A1.A1.Deleted. (MTBE Plant demolished in 2006/2007)Permittee/Owner/Operator shall ensure that the MTBE Plant (S-1100) does not process more than 3,000 barrels of methyl tertiary butyl ether per day, based on a rolling 30-day average and Permittee/Owner/Operator shall ensure that and that not more than 9,125,000 barrels of feed is processed at S-1100 during each 12 consecutive month period.. (basis: cumulative increase, toxics, offsets)~~

~~A2. Permittee/Owner/Operator shall ensure that total fugitive POC emissions from all new and modified equipment associated with S-1100, MTBE Plant, and S-782 methanol storage tank, shall not exceed 62.4 lb/day, based on a 365 day average emission rate, as calculated in accordance with District procedures. (basis: cumulative increase, toxics, BACT, offsets)~~

~~A3. Permittee/Owner/Operator shall ensure that all new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: Regulation 8-28)~~

~~A4. Permittee/Owner/Operator of S-1100 MTBE Plant shall maintain daily records in a District approved log of all methanol deliveries by rail transport, including: (1) the number of tank cars, (2) the weight of each tank car empty and full, and (3) the distances each tank car travels full and empty, respectively, within District boundaries. The total emissions, in lb/day, of NO_x, CO, NMHC (POC), PM₁₀, and SO₂, from the operation of the cargo carrier's engines shall be calculated in accordance with District procedures, reported under Condition 4357-5 and included under Condition 4357-2. (basis: cumulative increase, offsets)~~

~~A5. Permittee/Owner/Operator of S-1100 MTBE Plant and S-782 Methanol Storage Tank shall calculate all fugitive POC emissions, in lb/day, associated with S-1100 and S-782, excluding combustion emissions from the rail transport of methanol, in accordance with District procedures and summarize on a monthly basis. The total of~~

~~fugitive and rail combustion emissions shall be calculated and recorded daily to demonstrate compliance with condition 2 above. These records shall be kept on site and made available for District inspection for a period of 48 months from the date the record was made. (basis: cumulative increase, offsets)~~

~~A6. Permittee/Owner/Operator shall maintain a file containing all measurements and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to: the daily throughput data for MTBE and relevant daily transport, storage, and throughput records for methanol. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets)~~

~~PERMIT CONDITIONS FOR S-782 METHANOL STORAGE TANK:~~

~~B1. The internal floating roof and primary and secondary seals installed on storage tank S-782 must meet the design criteria of District Regulation 8-5-320. In addition, the primary metallic shoe seal must meet the design criteria of Regulation 8-5-321. The roof legs shall be sealed with Mesa type leg boots (or District approved equivalents) to minimize fugitive emissions. (basis: cumulative increase)~~

~~B2. The total liquid throughput for Storage Tank S-782 shall not exceed 657,000 barrels during any consecutive 12 month period. (basis: cumulative increase, offsets, toxics)~~

~~B3. Only methanol shall be stored in tank S-782 unless the owner/operator has received prior, written authorization from the District for an alternate material(s). (basis: cumulative increase, toxics, offsets)~~

~~B4. To demonstrate compliance with the above conditions, the owner/operator of Tank S-782 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 types of materials stored and the dates that the materials were stored.~~

~~b.b. The total throughput of each material stored, summarized on a monthly basis.~~

~~— (basis: cumulative increase, toxics, offsets)~~

Condition # 10684

S21 Plant B2759

S50 Plant B2759

APPLICATION 17712/17713 (2008) REMOVE COMPLETED AND REDUNDANT CONDITIONS - AMORCO

1. ~~Permittee/Owner/Operator shall ensure that the secondary seals installed on storage tanks S-21 and S-50 meet the zero-gap criteria of District Regulation 8, Rule 5. (basis: Regulation 8-5)~~
2. ~~To verify compliance with Condition #1 above, the Permittee/Owner Operator of S-21 and S-50 shall submit to the District, within 30 days of installation or replacement of the secondary seals, a written report of the seal condition including certification of the actual gap measurements between the tank shell and seal surface. Permittee/Owner/Operator shall ensure that this written certification is submitted to the District on an annual basis. The time interval between certifications shall not exceed 15 months. (basis: Regulation 8-5)~~

Condition # 10696

Application 12205: Modified Permit conditions to reflect the new changes in the Foul Water Stripper Charge System

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Deleted Part 4.

S529 Tank A-529
S530 Tank A-530
S656 Tank A-846
S658 Tank A-847
S815 No. 1 Feed Prep Unit
S816 No. 2 Feed Prep Unit
S817 No. 3 Crude Unit

1. Volatile organic compound emissions from sources S-815, S-816, S-817, S-529, S-530, S-656, and S-658 shall be abated at all times by the vapor recovery system A-12 operating in conjunction with the No. 5 Gas Plant and the refinery flare gas recovery system, with an overall abatement efficiency of at least 95%. (basis: Regulation 1-301, toxics)
2. ~~Deleted. (Redundant with Regulation 8-18.)~~Permittee/Owner/Operator shall implement an Inspection and Maintenance Program for fugitive POC emissions from all new pumps, compressors, valves and flanges associated with this project in accordance with District Regulation 18, 25, and 28 with the following revisions:
 - a. All accessible pumps, compressors, valves and flanges shall be subject to quarterly inspection and maintenance criteria;

- b. ~~The leak limitation for pumps and compressors shall be 500 ppm (expressed as methane) measured above background at 1 cm from the source; the leak limitation for valves and flanges shall be 100 ppm (expressed as methane) measured above background at 1 cm from the source;~~
- e. ~~Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations. Any future revisions to and/or future requirements of Regulation 8, Rules 18, 25 or 28 shall supersede the above listed requirements only if the new Rule requirement is more stringent than the above criteria.~~

~~(basis: cumulative increase, offsets, Regulation 8-18, Regulation 8-25, Regulation 8-28)~~

3. ~~Deleted. (Completed. All new hydrocarbon vapor, pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)~~ All new hydrocarbon vapor, pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: BACT)
4. ~~Deleted. (Final fugitive count submitted January 22, 1999 and additional offsets provided in 2010 via Application 12205.)~~ Permittee/Owner/Operator shall submit a final count of all new pumps, compressors, valves, and flanges within 30 days of start-up of S-656 and S-658. Permittee's cumulative increase in emissions shall be adjusted if there is an increase in total emissions to reflect the difference between emissions based on predicted versus actual component counts. Permittee/Owner/Operator shall provide to the District any required additional offsets, at the offset ratio triggered at the time of S-656 and S-658 permit issuance, for any adjusted cumulative which results in an increase in emissions. (basis: cumulative increase, offsets)

Condition # 10984

S137 Tank A-137

PERMIT CONDITIONS FOR S-137, FIXED ROOF STORAGE TANK:

1. Source S-137 shall be abated by the properly maintained Vapor Recovery System, A-14, at all times that S-137 is in operation except as allowed in Regulation 8, Rule 5. (basis: cumulative increase)
2. The total liquid throughput for Storage Tank S-137 shall not exceed 1,915,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
3. Only the materials, gasoline and/or petroleum products in recovered oil service, shall be stored in tank S-137, unless the owner/operator has received prior written authorization from the District for an alternate material(s). (basis: cumulative increase)

4. In order to demonstrate compliance with the above conditions, the owner/operator of tank S-137 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 type of all materials stored and the dates that the material were stored.
 - b. The total daily throughput of each material stored, summarized on a monthly basis.
(basis: cumulative increase)

Condition # 11433

S802 FCCU Fluid Catalytic Cracker

S901 No. 7 Boiler

PERMIT CONDITION ID 11433 PLANT ~~13-14628~~ S-802 AND S-901, THE FCCU/CO BOILER PLANT:

ADMINISTRATIVELY REVISED VIA APPLICATION 15212 (MARCH 2007) ADDED CONSENT DECREE PARTS 7 THROUGH 12.

ADMINISTRATIVELY REVISED VIA APPLICATION 19647 (MARCH 2009) CONSOLIDATION OF BUBBLE CONDITION 4357 WITH CONDITION 8077

ADMINISTRATIVELY REVISED VIA APPLICATION 17500 (JUNE 2009) CLARIFICATION OF CONSENT DECREE REQUIREMENTS, ADDING PARTS 13 - 16.

NOTE: The consent decree referenced in this condition is:

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et.al. in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005

1. The FCCU/CO Boiler Plant, Sources S-802/S-901, shall be abated at all times of operation by the electrostatic precipitator A-30 operating properly as designed.
(basis: cumulative increase, BACT, offsets)
2. Total emissions to the atmosphere from the FCCU/CO Boiler Plant, Sources S-802/S-901, shall not exceed the following limits in any calendar year.

PM/PM10	151.5	ton/year
POC	5.8	ton/year
NOx	354.4	ton/year
SO2	1335.5	ton/year
CO	121.9	ton/year

(basis: cumulative increase, BACT, offsets)

- 2A. The owner/operator shall continuously monitor and record SO₂ and NO_x emissions exiting A30 to determine compliance with Part 2. Any new CEMs shall be reviewed and pre-approved the District Source Test Manager. (basis: cumulative increase, BACT)
- 2B. ~~Effective June 1, 2004, the~~ The owner/operator shall install a continuous opacity monitor to ensure that the emission is not greater than 20% opacity for a period or periods aggregating more than three minutes in any hour when the boiler ~~is~~ is burning CO gas from the FCCU. (basis: Reg. 6-1-302)
3. ~~Deleted. (All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)~~(fugitive) All new hydrocarbon vapor pressure relief valves associated with this project shall be vented to the refinery flare gas recovery system. (basis: cumulative increase, BACT, offsets)
4. To demonstrate compliance with the emission limits of part 2 above and Condition ID 43578077, part B2, the Owner/Operator shall monitor and calculate all emissions, in lb/day, of NO_x, CO, POC, PM/PM₁₀, and SO₂, associated with the FCCU/CO Boiler Plant, S-802 and S-901, and summarize and report these emissions to the District on a monthly basis, in accordance with the procedures and requirements specified in Condition ID 43578077, part B5. (basis: cumulative increase, BACT, offsets)
5. The Owner/Operator may submit for District review approved source test data to develop new emission factors for CO and precursor organic compounds, POC, to be used as alternatives to the emission factors specified in Permit No. 22769 (the No. 3 HDS Permit), if it can be shown that the new data are more representative of actual emissions. (basis: cumulative increase, offsets)
6. The Owner/Operator shall maintain a District approved file containing all measurements, records, charts, and other data which are required to be collected pursuant to the various provisions of this conditional permit, as well as all other data and calculations necessary to determine the emissions from the emission points covered by this permit, according to the procedures specified in Permittee/Owner/Operator's Permit No. 22769 (the No. 3 HDS Permit). This material shall be kept available for District staff inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets, BACT)
7. NO_x concentration emission limits from the FCCU Regenerator shall not exceed 20 ppmvd at 0% O₂, measured as a 365-calendar day rolling average, and 40 ppmvd at 0% O₂, measured as a 7-calendar day rolling average, as determined prior to commingling with other streams. (basis: ~~EPA~~-Consent Decree Paragraph 35)

8. SO₂ concentration emission limits from the FCCU shall not exceed 25 ppmvd at 0% O₂, measured as a 365-calendar day rolling average, and 50 ppmvd at 0% O₂, measured as a 7-calendar day rolling average. (basis: ~~EPA Consent Decree Paragraph 82~~)
9. CO emissions from the FCCU shall not exceed 500 ppmvd at 0% O₂, measured as a one-hour block average. (basis: ~~EPA Consent Decree Paragraph 94, 40 CFR Part 60, Subpart J~~)
10. Particulate concentration emissions limits from the FCCU shall not exceed 1 pound per 1000 pounds of coke burned (front half only according to Method 5B or 5F, as appropriate), measured as a one-hour average over three performance test runs. (basis: ~~EPA Consent Decree Paragraph 95, 40 CFR Part 60, Subpart J~~)
11. The FCCU Regenerator (S-802) shall be an affected facility under 40 CFR 60 Subpart J for carbon monoxide (CO), opacity, particulate matter, and sulfur oxides (SO₂) and the Owner/Operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for FCCU Regenerators. The NO_x, NSPS Subpart J limits for SO₂, CO, opacity, and particulate matter, shall not apply during periods of startup, shutdown or malfunction of the FCCU or malfunction of the applicable control equipment, if any. (basis: ~~EPA Consent Decree Paragraphs 99, 102, 107A and 110~~)
- ~~12.~~ The FCCU short term NO_x limit in Part 7 (40 ppmvd at 0% O₂, measured as a 7-calendar day rolling average) and the short-term SO₂ limit in Part 8 (50 ppmvd at 0% O₂, measured as a 7-calendar day rolling average) limits in parts 7-10 shall not apply during periods of FCCU feed hydrotreater outage, including startup, shutdown or malfunction of the hydrotreater. During hydrotreater outages, startup, shutdown or malfunction, Tesoro shall comply with the FCCU Feed Hydrotreater Outage Plan. (basis: ~~EPA Consent Decree Paragraph 85~~)
13. The Owner/Operator shall use NO_x and O₂ CEMS to demonstrate compliance with the NO_x emission limits in Part 7. The CEMS shall be installed, certified, calibrated, operated, and maintained in accordance with the applicable provisions of 40 CFR 60.13 and 40 CFR 60, Appendices A, B, and F. (basis: ~~Consent Decree Paragraphs 61, 62~~)
14. The Owner/Operator of S-802 shall use SO₂ and O₂ CEMS to demonstrate compliance with the SO₂ emission limits in Part 8. The CEMS shall be installed, certified, calibrated, operated, and maintained in accordance with the applicable provisions of 40 CFR 60.13 and 40 CFR 60, Appendices A, B, and F. (basis: ~~Consent Decree Paragraphs 90, 91~~)

15. The Owner/Operator of S-802 is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR 60.7, with respect to the provisions of 40 CFR Part 60, Subparts A and J, as such requirements apply to relate to CO, opacity, particulate matter, and SO₂ emissions from FCCU regenerators. (basis: Consent decree Paragraphs- 100, 108)
16. The Owner/Operator shall conduct the accuracy tests listed below on any CEMS used to comply with this permit condition unless that CEMS is otherwise subject to the requirements of NSPS Subparts A and J. These accuracy tests are allowed in lieu of the requirements of Part 60, Appendix F Paragraphs 5.1.1, 5.1.3 and 5.1.4. (basis: Consent decree Paragraphs 62, 90, 101, 109)
- Conduct either a RAA or a RATA on each CEMS at least once every three (3) years.
 - Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.
 - Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA.

Condition # 11609

S32103 Fugitive Components Compressor Seals and Pump Seals

PERMIT CONDITIONS FOR PLANT ~~1314628~~, A-40 TO ABATE FUGITIVE EMISSIONS FROM 6 EXISTING PUMPS, SERVING GASOLINE TO PIPELINES IN TRACT 6: (APPLICATION 13815)

Administratively Changed by Application 21711 (May 2010). Deleted Parts A3, C3 and D3 (completed flowrate tests) and Parts B1 through B6 (A41 is out of service). Revised B6A.

A1. The Electric Thermal Oxidizer, A-40, shall have a minimum VOC destruction efficiency of 95% by weight, minimum of 0.5 second residence time, and minimum operating temperature of 1400°F. (basis: cumulative increase, toxics)

~~B2A2~~. The Electric Thermal Oxidizer, A-40, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, toxics)

~~C3A3~~. Completed (Source Test conducted 12/9/1994; reported to BAAQMD on 12/20/1994). To verify compliance with Condition Nos. 1 and 2 above, the owner/operator of A-40 shall perform a District approved source test within 60 days of start-up. The result shall be reported to the District no later than 30 days from the date of the test. (basis: cumulative increase, toxics)

~~D4A4.~~ Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-40. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-40 exceed 20. (basis: cumulative increase, toxics)

~~D5A5.~~ When A-40 is in operation, the owner/operator of A-40 shall:

- a. Record in a District approved log the date and time that pump seal vapors are abated by A-40.
- b. Monitor twice daily and record in a District approved log the operating temperature of A-40.

Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase)

PERMIT CONDITIONS FOR PLANT ~~1314628~~, EITHER A-41 OR A-14 TO ABATE FUGITIVE EMISSIONS FROM 8 EXISTING PUMPS, SERVING ALKYLATION UNIT, (APPLICATION 14138):

- B1. ~~Deleted. (A41 is no longer in operation; VOC destruction efficiency of A14 Vapor Recovery System to Gas Plant and 40# Refinery Fuel Gas System does not need to be specified). The Electric Thermal Oxidizer, A-41, and Vapor Recovery System, A-14, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-41 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400oF. (basis: cumulative increase, offsets)~~
- B2. ~~Deleted. (A41 is no longer in operation).The Electric Thermal Oxidizer, A-41, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)~~
- B3. ~~Deleted. (A41 is no longer in operation).To verify compliance with Condition Nos. 1 and 2 above, the owner/operator of A-41 shall perform a District approved source test within 60 days of start up. The result shall be reported to the District no later than 30 days from the date of the test. (basis: cumulative increase, offsets)~~
- B4. ~~Deleted. (A41 is no longer in operation).Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-41. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-41 exceed 20. (basis: cumulative increase, offsets)~~
- B5. ~~Deleted. (A41 is no longer in operation).When either A-41 or A-14 is in operation, the owner/operator of A-41 and A-14 shall:
 - a. Record in a District approved log the date and time that pump seal vapors are switched from A-41 to A-14, or vice versa.~~

~~b. Monitor twice daily and record in a District approved log the operating temperature of A-41. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made.~~

~~(basis: cumulative increase, offsets)~~

B6. ~~Deleted. (Each~~If A-41 is taken out of service pursuant to permit application #3447 each of the 8 pumps' single seals shall ~~be were~~ replaced with District approved dual mechanical seals with a barrier fluid and operated such that the barrier fluid pressure is higher than the process liquid pressure.)

~~(basis: cumulative increase, Reg. 8-18, BACT)~~

B6A. ~~If A-41 is taken out of service pursuant to permit application #3447,~~ Permittee/Owner/Operator shall ensure that total organic compound emissions from each Alkylation Unit dual seal pump vented to the A14 vapor recovery system does not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: cumulative increase, Reg. 8-18, BACT)

PERMIT CONDITIONS FOR PLANT ~~1314628~~, A-42 TO ABATE FUGITIVE EMISSIONS FROM 8 EXISTING PUMPS, SERVING HYDROCRACKER UNIT, (APPLICATION 14432):

C1. The Hydrocracker Electric Thermal Oxidizer, A-42, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-42 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400°F. (basis: cumulative increase, offsets)

C2. The Electric Thermal Oxidizer, A-42, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)

C3. ~~Completed. (Source Test conducted within 60 days of startup as specified). To verify compliance with Condition Nos. 1 and 2 above, the owner/operator of A-42 shall perform a District approved source test within 60 days of start-up. The result shall be reported to the District no later than 30 days from the date of the test.~~

~~(basis: cumulative increase, offsets)~~

C4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-42. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-42 exceed 20.

(basis: cumulative increase, offsets)

C5. When A-42 is in operation, the owner/operator of A-42 shall keep the following records:

a. Record in a district approved log the date and time that pump seal vapors are abated by A-42.

b. Monitor twice daily and record in a District approved log the operating temperature of A-42. Records shall be kept on site and made available for

District inspection and be retained for at least 5 years from the date on which the record was made.
(basis: cumulative increase, offsets)

PERMIT CONDITIONS FOR PLANT ~~13~~14628, A-43 TO ABATE FUGITIVE EMISSIONS ON 5 EXISTING PUMPS, SERVING TRACT 3, (APPLICATION 14432):

- D1. The Electric Thermal Oxidizer, A-43, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-43 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400oF. (basis: cumulative increase, offsets)
- D2. The Electric Thermal Oxidizer, A-43, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)
- D3. ~~Completed. (Source Test conducted within 60 days of startup as specified). To verify compliance with Condition Nos. 1 and 2 above, the owner/operator of A-43 shall perform a District approved source test within 60 days of start-up. The result shall be reported to the District no later than 30 days from the date of the test.~~
(basis: cumulative increase, offsets)
- D4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-43. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-43 exceed 20. (basis: cumulative increase, offsets)
- D5. When A-43 is in operation, the owner/operator of A-43 shall keep the following records:
- Record in a District approved log the date and time that pump seal vapors are abated by A-43. (basis: cumulative increase, offsets)
 - Monitor twice daily and record in a District approved log the operating temperature of A-43. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

PERMIT CONDITIONS FOR PLANT ~~13~~14628, A-14 TO ABATE FUGITIVE EMISSIONS ON 10 EXISTING PUMPS, SERVING NO 1. ISOMERIZATION (APPLICATION 14432):

- E1. All VOC emissions from pump seals of the ten pumps, S-32103, in the No. 1 Isomerization Unit shall be vented to and controlled at all times by the Refinery Vapor Recovery System A-14. (basis: cumulative increase, offsets)
- E2. The No.1 Gas Plant Vapor Recovery System, A-14, shall have a minimum VOC destruction efficiency of 95% by weight. (basis: cumulative increase, offsets)

- E3. When A-14 is in operation, the owner/operator of A-14 shall keep the following records:
- a. The daily operating time of A-14. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

Condition # 11707

~~PERMIT CONDITIONS FOR S-696, INTERNAL FLOATING ROOF STORAGE TANK:~~

- ~~1. The floating roof and primary and secondary seals installed on storage tank S-696, must meet the design specifications and seal gap requirements of District Regulation 8, Rule 5, for an internal floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: cumulative increase, Regulation 8-5)~~
- ~~2. To verify compliance with Condition #1 above, the owner/operator of S-696 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For each seal, the time interval between such certifications shall not exceed 10 years. (basis: Regulation 8-5, cumulative increase)~~

Condition # 11896

~~S280 Tank A-280~~

~~S311 Tank A-311~~

~~S312 Tank A-312~~

~~PERMIT CONDITIONS FOR S-280, S-311, AND S-312~~

~~INTERNAL FLOATING ROOF STORAGE TANKS:~~

- ~~1. The floating roofs and primary and secondary seals installed on storage tanks S-280, S-311, and S-312, must meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an internal floating roof tank with riveted shell and metallic shoe primary seal and secondary wiper seal. (basis: cumulative increase, Regulation 8-5)~~
- ~~2. To verify compliance with Condition #1 above, the owner/operator of S-280, S-311, and S-312 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For each seal, the time interval between such certifications shall not exceed 10 years. (basis: cumulative increase, Regulation 8-5)~~

Condition # 11897

S701 Tank A 701

PERMIT CONDITIONS FOR S 701, EXTERNAL FLOATING ROOF STORAGE TANK:

1. The floating roof and primary and secondary seals installed on storage tank S 701 must meet the design specifications and seal gap requirements of District Regulation 8, Rule 5 for an external floating roof tank with welded shell and metallic shoe primary seal and secondary wiper seal. (basis: Regulation 8 5)
2. To verify compliance with Condition #1 above, the owner/operator of S 701 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certification of actual gap measurements between the tank shell and seal surface. For secondary seals, this certification shall be submitted to the District on an annual basis. The time interval between such certifications shall not exceed 15 months. For primary seals, the certification shall be submitted at least once every 5 years. (basis: Regulation 8 5))

Condition # 12016

Condition ID #12016

Application 10912 Clean Fuels Project Permit Conditions

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 21711 (May 2010). Delete Parts 9.1.5, 9.1.6, 9.2.3, 9.2.4, 9.3, 9.4.4, 9.5, 9.10.1, 9.10.2, 9.11.1, 9.11.2 and 9.11.3.

Clean Fuels Project
Permit Conditions

Unless specified otherwise, the following permit conditions apply only to sources installed or modified as part of the Clean Fuels Project.

9.1 Source Tests / Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by any permit condition associated with the Clean Fuels Project, the following shall apply:

1. For the purposes of determining compliance with any of the emission limits in these Clean Fuels Project permit conditions (including emission limits with averaging

times that exceed the typical source test duration), the applicable source test methods in the District's Manual of Procedures shall be sufficient for documenting compliance and non-compliance. All source testing and monitoring shall be done in accordance with the District Manual of Procedures. Written source testing protocol shall be submitted to the District Source Test Division for review and approval at least 30 days prior to conducting the source test. (basis: cumulative increase, offsets, BACT)

2. The District Source Test Division shall be notified in writing of the date and time of any source test, at least 2 weeks prior to conducting the source test. (basis: cumulative increase, offsets, BACT)
3. The initial source tests required by these permit conditions shall be conducted according to the following schedule:
 - a) within 60 days of startup; or
 - b) within 30 days of achieving maximum production rate, if maximum production is not achieved within the first 30 days following startup, not to exceed 150 days from initial startup. (basis: cumulative increase, offsets, BACT)
4. Written source test results shall be submitted to the District Source Test Division and the District permit engineer within 60 days of completion of the source test, unless an extension is approved by the District. In all cases, written source test results must be received by the District within 150 days of startup. (basis: cumulative increase, offsets, BACT)
5. ~~Completed. Prior to construction of any source for which a source test or CEM is required, (-Permittee/Owner/Operator shall provided the location of all sampling ports, platforms, etc... to the District Source Test Division for review and approval.) (basis: cumulative increase, offsets, BACT)~~
6. ~~Completed. Prior to the installation of any CEM, (-Permittee/Owner/Operator shall submitted the CEM design to the District Source Test Section for review and approval.) (basis: cumulative increase, offsets, BACT)~~
7. Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. Permittee/Owner/Operator shall use a computer or stripchart to record, store, and report a summary of the CEM data for the monthly report. For any CEM that is used to verify compliance with a concentration limit that is averaged over a specified time period, average concentrations shall be calculated. These average concentrations shall be summarized in the monthly report. (basis: cumulative increase, offsets, BACT)

9.2 Record Keeping & Monthly Reporting

1. Permittee/Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least two years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of source test data, CEM data, fuel usage, emission calculations and fugitive component counts. Permittee/Owner/Operator shall also keep all records required by NSPS and NESHAP regulations. (basis: cumulative increase, offsets, NSPS, NESHAP)

2. ~~Deleted. (All information required to determine compliance was submitted March 1, 1995.) Upon startup of the first process unit associated with the Clean Fuels Project, Permittee/Owner/Operator shall submit all information deemed necessary by the District permit engineer to determine compliance with all permit conditions required for this project. The format of the reports shall be subject to approval by the District permit engineer prior to startup, and shall include, but is not limited to, the information listed below for new or modified sources in the Clean Fuels Project. Changes to the original format shall be subject to approval by both Permittee/Owner/Operator and the District permit engineer. (basis: cumulative increase, offsets, NSPS, NESHAP)~~

3. ~~Deleted. (Monthly Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10) Monthly Reporting Requirements
Fuel usage including type and amount for source:
S-937 No. 1 Hydrogen SMR Furnace, F-37
+ Combustion emissions for this source;
+ CEM data and emission calculations;
+ CEM indicated excesses;
+ Fuel gas H₂S concentrations;
+ Breakdown requests and associated BAAQMD ID #'s.~~

4. ~~Deleted. (Annual Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10) Annual Reporting Requirements~~

+
+

9.3 Offsets

1. ~~Deleted. (Final fugitive count and list of installed sources submitted with Application 21711 and additional offsets provided in 2010 via Application 10912) If after completion of the Clean Fuels Project, a source(s) was not constructed, the project emissions shall be adjusted and offsets provided for the source(s) shall be returned to the banking certificate; or in the case of PM₁₀ emissions, offsets may either be returned to the Coker/No. 5 CO Boiler (S-806/S-903) emissions limit, the source from which offsets were provided, or banked. (basis: cumulative increase, offsets)~~

9.4 Fugitives

Conditions 9.4-1 through 9.4-4 for fugitive emissions apply only to POC gaseous and light-liquid services.

1. Deleted. (The Authority to Construct design requirements for fugitive components are completed.) New or modified fugitive equipment in POC gaseous or light liquid service, installed as part of the Clean Fuels Project shall comply with the following requirements:

Fugitive Equipment Type	Leak Limit (ppm)	Inspection Frequency	Acceptable Technologies
1.a Valves	100	according to Reg 8, Rule 18	(a) bellows sealed (b) live loaded (with polished stems for flow control valves) (c) graphite or or Teflon packed (d) equivalent District approved type.
1.b Flanges	100	according to Reg 8, Rule 18	(a) graphite or Teflon based gaskets (b) metal ring joints or an equivalent District approved technology.
1.e Pump	500	according to Reg 8, Rule 25	(a) dual mechanical seals with heavy liquid barrier fluid either at higher pressure than the process stream or vented to a 95% efficient control device. (b) single mechanical seal vented to a 95% efficient control device. (c) sealless pump technology approved by the District such as "canned" or or magnetically

			driven pumps.
1.d			
Compressor	500	according	(a) "wet" dual mech-
Seals		to Reg 8,	anical seals with
(centrifugal		Rule 25	heavy liquid
compressors)			barrier fluid
			vented to a 95%
			efficient control
			device.
			(b) dual dry gas
			mechanical seals
			with inert gas
			buffer vented to
			a 95% efficient
			control device.
1.e			
Compressor	500	according	(a) vented to a 95%
Seals		to Reg 8,	efficient control
(reciprocating		Rule 25	device.
compressors)			
1.f			
Pressure		according	(a) vented to the
Relief		to Reg 8,	flare gas
Valves		Rule 28	recovery system
			or a District-
			approved control
			device, 95%
			efficient.
1.g			
Process			(a) P-Trap sealing
Drains			system.
1.h			
Process			(a) closed loop or
Sample			continuous-
Systems			flow design
			with no purging
			to process
			drains.

This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure material (<0.05 psia). However, for pressure relief valves, light liquid includes those materials with vapor pressures between 0.05 psia and 0.5 psia. If the District revises Regulation 8, Rule 28, Pressure Relief Valves at Petroleum

~~Refineries and Chemical Plants, to increase the low vapor pressure exemption in Regulation 8-28-111, then the vapor pressure exemption in this condition may be adjusted accordingly, not to exceed 0.5 psia. (basis: BACT, offsets, cumulative increase, toxics, Regulation 8-18, Regulation 8-25, Regulation 8-28)~~

2. ~~Deleted. (The Authority to Construct design requirement for compressors is completed.) All new, modified or replaced compressors in hydrocarbon service (<50% hydrogen) installed as part of the Clean Fuels Project shall be equipped with an automatic leak indicator (basis: NSPS: 40 CFR 60, Subpart GGG).~~
3. ~~Deleted. (The Authority to Construct design requirement definition of light liquid service for fugitive components is no longer needed.) For the purpose of these permit conditions, unless specifically stated, light liquid service shall be defined as a hydrocarbon liquid having an initial boiling point of 302 oF or less. (basis: cumulative increase)~~
4. ~~Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project) Total fugitive emissions from all new or modified equipment installed as a part of the Clean Fuels Project are 71.564 tpy precursor organic compounds. Permittee/Owner/Operator shall submit a count of compressors, pumps, valves, and flanges within 60 days of start-up of each unit. If there is an increase in total emissions, Permittee/Owner/Operator's cumulative emissions shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. Permittee/Owner/Operator shall provide to the District any required offsets, at the offset ratio triggered at the time of permit issuance, but not less than 1.15:1.0, for any adjusted cumulative increase in emissions. Additional offsets shall be provided within 90 days of start-up. Fugitive emissions shall be calculated using the fugitive emission factors identified in the fugitive emission calculations in Appendix B of the Engineering Evaluation Report for Application Number 10912. (basis: cumulative increase, toxics)~~

9.5 ~~Deleted. (Fuel Gas System requirements triggered by NSPS and BACT. Since there were no new or modified combustion sources installed, these requirements are not applicable)~~

1. ~~The refinery fuel gas burned in any Clean Fuels Project combustion source shall be limited to all of the following:~~
 - a) ~~0.1 grain/dscf (163 ppm) H₂S averaged over 3 hours (basis: NSPS: 40 CFR 60 Subpart J),~~
 - b) ~~100 ppmv H₂S averaged over any consecutive 24 hour period (basis: BACT)~~
 - c) ~~50 ppmv H₂S averaged over any consecutive 12 month period; and, (basis: BACT)~~

~~d) 100 ppmv total reduced sulfur (hydrogen sulfide, methyl mercaptan, carbon disulfide, dimethyl sulfide, dimethyl disulfide, and carbonyl sulfide), expressed as H₂S equivalent, averaged over any consecutive 12 month period. (basis: BACT)~~

~~2. Permittee/Owner/Operator shall install a continuous gaseous fuel monitor/recorder to determine the H₂S content of the refinery fuel gas prior to combustion in all Clean Fuels Project combustion sources. Permittee/Owner/Operator shall also, prior to combustion in all Clean Fuels Project combustion sources, install a continuous monitor/recorder, or an alternate monitoring method approved by the District, to measure total reduced sulfur compounds in the refinery fuel gas expressed as H₂S equivalent. (basis: BACT, NSPS: 40 CFR 60 Subpart J)~~

~~3. Permittee/Owner/Operator shall calculate and record the: (1) 3-hour H₂S content; (2) 24-hour rolling average H₂S content; and (3) TRS content of the refinery fuel gas, for determining compliance with Condition 9.5-1. On a monthly basis, Permittee/Owner/Operator shall report daily fuel consumption and the highest 3-hour and 24-hour average H₂S content of the refinery fuel gas, for combustion sources associated with the Clean Fuels Project. Permittee/Owner/Operator shall also report the monthly, and 12-month average TRS concentrations in the refinery fuel gas. (basis: BACT, NSPS: 40 CFR 60 Subpart J)~~

9.6 Combustion Sources (S-1033, S-1034, S-1035 and S-1036) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

9.7 Storage Tanks (S-773, S-774, S-776, S-777, S-778, S-779, S-783, S-784, S-785, S-786, and S-787) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

9.8 Flares (A-33 and A-35) These control devices were not installed and conditions associated with these control devices have been deleted. (basis: cumulative increase)

9.9 Cooling Towers (S-989, S-993, and S-994) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

9.10 Toxics

~~1. Deleted. (Final Project Risk did not exceed 4.5 in a million.)The total carcinogenic risk from the Clean Fuels Project shall not exceed 4.5 in one million, the risk attributed to the Project based on the District adjusted Health Risk Assessment (HRA). (basis: toxics)~~

~~2. Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project)Upon startup of each process unit, Permittee/Owner/Operator shall compare actual counts of individual fugitive~~

~~components (valves, flanges, pumps, compressors, relief valves) with the number of components for each stream (components that were modeled under a single modeling identification number in the Project Health Risk Assessment). If the actual number of components is greater than the number used in the Project HRA for a stream, then Permittee/Owner/Operator shall re-calculate fugitive emissions for that stream. If the re-calculated fugitive emissions exceed the original HRA emissions for that stream by 10% or more, then Permittee/Owner/Operator shall re-calculate the carcinogenic risk for that process stream. (Permittee/Owner/Operator may also consider risk reductions for those streams with fewer components, if they wish.) Upon completion of the Clean Fuels Project, Permittee/Owner/Operator shall total all of the risk increases (and decreases, if calculated) for individual streams, relative to the original HRA calculations, and adjust the project risk accordingly. (basis: cumulative increase, toxics)~~

9.11 Summary of Refinery Cap Revisions (Refer to Appendix B, Tables B-1 and B-2.)

- ~~1. Deleted. (The S-903 element of the CFP was not installed.)Cap PM10 emission limits are reduced to reflect the offsets provided by emission reductions at No. 5 CO Boiler S-903. (basis: offsets)~~
- ~~2. Deleted. (The CFP S773 and S774 element was not installed.)Cap POC emission limits are raised to reflect the slight emission increases at tanks S-773 and S-774 (MTBE tanks converted to gasoline storage). Also, tanks S-773 and S-774 will be removed from the text of Condition ID-10525, which pertains to the MTBE Unit. (basis: cumulative increase)~~
- ~~3. Deleted. (The CFP S937 element was not installed.)Use of AP-42 emission factors is specified in the cap conditions, in lieu of current cap factors, for No. 1 Hydrogen Plant SMR Furnace, S-937. Cap emission limits were changed to reflect the changed emission calculation basis to AP-42 factors. For all pollutants except NO_x, the cap limit adjustment was calculated as follows:~~

$$\text{Cap Adjustment} = (\text{post-project S-937 emissions})\text{AP-42 factor} - (\text{pre-project S-937 emissions})\text{cap factor}$$

~~Cap NO_x limits were not adjusted because actual NO_x emissions from S-937 decrease due to the low-NO_x burner retrofit. However, to ensure the decrease, the cap NO_x emissions limit for S-937 was changed to the AP-42 value of 81 pounds per billion BTU. This AP-42 emission factor for low-NO_x burners will be used to calculate emissions from S-937 after the project. The cap NO_x limits will be adjusted congruously with the compliance schedule NO_x emissions in Regulation 9, Rule 10. (basis: emission cap)~~

- ~~4. Deleted. (The Authority to Construct requirement to revise S-850 throughput in Condition 8077 was completed.)The throughput limit of 45,000 barrels per stream~~

~~day on #3 HDS unit S-850 in future Condition 8077, 6B is raised to 70,000 barrels per stream day. (basis: cumulative increase)~~

Condition # 12368

~~PERMIT CONDITIONS FOR S-316, INTERNAL FLOATING ROOF STORAGE TANK:
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

- ~~1. The primary and secondary seals installed on storage tank S-316, must meet the design criteria of District Regulation 8-5-306 and 8-5-320. In addition, the primary seal and secondary seals on storage tank S-316 must meet the design specifications and seal-gap requirements for riveted tank with metallic shoe seals of District Regulation 8-5-321 and 8-5-322, respectively.
(basis: Regulation 8-5)~~
- ~~2. To verify compliance with Condition #1 above, the owner/operator of S-316 shall submit to the District within 30 days of installation or replacement of any primary or secondary seals, a written report of the seal condition including certifying of actual gap measurements between the tank shell and seal surface. For secondary seals, this certification shall be submitted to the District at least every 10 years. For primary seals, the certification shall be submitted at least every 5 years.
(basis: Regulation 8-5)~~

Condition # 13282

~~APPLICATION 11395 CONSTRUCTION OF TK-757 (S-1421)
APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK
CONDITIONS~~

THE FOLLOWING CONDITIONS SHALL APPLY TO SOURCE S-1421 WHENEVER NON-EXEMPT ORGANIC MATERIALS ARE STORED IN THE TANK.

1. The throughput of all materials at S-1421 (Tank 757) shall not exceed 2,490,000 barrels during any consecutive 12-month period, unless the owner/operator can show, through monthly recordkeeping and District- approved calculations, that total precursor organic compound emissions from S-1421 (Tank 757) organic liquid storage tank do not exceed 1.033 tons during any consecutive 12 month period.
(basis: cumulative increase, offsets)
2. The owner/operator may store hydrocarbon materials other than light end saturated diesel, gasoline (RVP=7), provided the following three criteria are met:

- a) the true vapor pressure of the alternate material is not greater than gasoline with RVP=7,
- b) the increase in toxic risk from the tank does not exceed the District's toxic screening levels, and;
- c) the owner/operator has applied for and received prior written approval for the alternative material(s). The request shall include an analysis of toxic emission increases when appropriate. (basis: cumulative increase, toxics)

3. ~~Compliance with the tank design criteria was verified in a 2008 audit for Application 11395. Deleted. Construction requirement verified on startup. External floating roof tank S-757 shall have liquid mounted primary seals and zero-gap secondary seals. There shall be no ungasketed roof fittings, as described below. 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. Roof fitting control techniques not included in this list shall be subject to District approval, prior to installing the roof on the tank.~~

<u>Fitting Type</u>	<u>Control Technique</u>
Access hatch	Bolted cover, gasketed
Guide pole / Well	Slotted guide pole; gasketed, sliding cover, w/ float and Sleeve
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 boots or taped
Rim vent	Weighted mechanical actuation, gasketed

(basis: cumulative increase, BACT, offsets)

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 was made.
 - a) The type of organic liquid stored and the dates that the organic liquids were stored.
 - b) The monthly tank throughput for each material stored on the tank surface. (basis: cumulative increase, toxics, Regulation 8-5, offsets)

Condition # 13509

Administratively changed by Application 19419 (June 2009). Updated to remove the completed source test Part 4 and parts redundant with District regulations.

S955 Internal Combustion Engine

S956 Internal Combustion Engine
S957 Internal Combustion Engine
S958 Internal Combustion Engine
S959 Internal Combustion Engine
S960 Internal Combustion Engine

THE FOLLOWING CONDITIONS ARE EFFECTIVE JANUARY 1, 1997 ON SOURCES S-955, S-956, S-957, S-958, S-959 AND S-960, APPLICATION #15392:

1. This engine shall be fired exclusively on natural gas. (basis: toxics)
2. Deleted (basis: NOx emissions limit Redundant with Regulation 9-8-301.2) NOx emissions, calculated as NO₂, shall not exceed 140 ppmv @ 15% O₂, dry. (basis: Regulation 9-8)
3. Deleted (basis: CO emissions limit Redundant with Regulation 9-8-301.2) CO emissions shall not exceed 2000 ppmv @ 15% O₂, dry. (basis: Regulation 9-8)
4. Deleted (basis: Initial Source Test completed prior to the granting of the permit to operate August 1, 1996) To demonstrate compliance with Conditions 2 and 3, District approved source tests on S-955 through S-960 shall be performed within 180 days of start-up of these sources after NOx control retrofits are completed. In no event shall the source tests be performed later than March 31, 1997. Prior approval of the source test procedures shall be obtained from the District's Source Test Section. The District's Source Test Section shall also be notified at least 30 days in advance of the source test. The source test report shall be submitted to the District within 60 days of source test completion. (basis: Regulation 9-8)

Condition # 13605

~~Conditions for S-323, Plant 1314628, Application 25142 (March, 1996)~~

Amended by Application 10667 (November, 2004): Increase Reid vapor pressure from 2 to 9 psia, decrease throughput from 11,000,000 barrels/yr to 2,000,000 barrels/yr, add source testing to determine POC destruction efficiency of A-14 Vapor Recovery and process heaters.

Application 19415, (February 2009) added S-1528 Alkylate Railcar Unloading Rack

S-323 Fixed Roof Tank; Tank A-323, Capacity 924K Gallons, Storing: Alkylate Gasoline Blending Components abated by A-14 Vapor Recovery System

S-1528 Alkylate Railcar Unloading Rack, for unloading into S-323

1. The Owner/Operator shall ensure that the net throughput of all VOC/petroleum materials at S-323 (Tank 323) and S-1528 does not exceed 2,000,000 barrels during

each rolling consecutive 12-month period. A level-monitoring device in S-323 will measure the height of the tank. The change in height will be used to calculate throughput.
(basis: cumulative increase)

2. The owner/operator may store hydrocarbon materials other than gasoline and alkylate blending components in S-323, provided the following two criteria are met:
 - a) the Reid vapor pressure of the alternate material is not greater 9.0 psia (true vapor pressure not greater than 7.6 psia at 70F), and
 - b) POC emissions, based on the maximum throughput in part 1, do not exceed 1922.79 pounds per year; and
 - c) the resulting toxic risk from the tank does not cause the tank to fail a risk screen analysis. (basis: cumulative increase, toxics)
3. Notwithstanding any provision of District regulations allowing for either the maintenance or malfunction of A-14 due to a valid break down at No. 1 Gas Plant vapor recovery compressor(s), the Owner/Operator shall ensure that fixed roof tank S-323 vents to existing vapor recovery unit, A-14, or an equivalent District-approved abatement system, having a minimum overall VOC control efficiency of 99.5% on a mass basis. In accordance with the NSPS requirements of ~~10~~40 CFR 60, Subpart Kb, Owner/Operator shall ensure that this tank is maintained leak-free (less than 500 ppm above background as methane). (basis: cumulative increase, NSPS)
4. To determine compliance with part 3, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit

S-909 No. 9 Furnace @ No. 1 Feed Prep.

S-912 No. 12 Furnace @ No. 1 Feed Prep.

S-913 No. 13 Furnace @ No. 2 Feed Prep.

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr

- the POC emission rate at the stack

- the flue gas flow rate in SCFM at the stack

- the oxygen content of the stack flue gas

- the stack temperature

- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering

Division, Enforcement Division, and Source Test Division within 35 days of the source test.
(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

5. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
 - a. On a monthly basis, type and amount of liquids transferred through S-1528 and stored in S-323 and Reid vapor pressure ranges of such liquids.
 - b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
 - c. The time, date, duration, and reason for each instance that S-323 is not abated by A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 8-5-501, Regulation 1-238)

Condition # 13725

PERMIT CONDITIONS FOR S-651, EXTERNAL FLOATING ROOF STORAGE TANK, A/N 14080, PLANT # 13:

APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

1. ~~Source S-651 must meet all requirements of District Regulation 8, Rule 5 for storage of organic liquid in an external floating roof tank.~~
(basis: Regulation 8-5)

Condition # 14905

PERMIT CONDITIONS FOR S-32102, TWO 12 INCH PIPELINES PROJECT, APPLICATION 17340.

ADMINISTRATIVELY DELETED BY APPLICATION 21711 (MAY 2010). ALL PARTS COMPLETED OR REDUNDANT WITH DISTRICT REGULATIONS.

1. ~~Deleted. (Redundant with Regulation 8-18.) Permittee/Owner/Operator shall implement an inspection and maintenance program for all pumps, valves and flanges in this project in accordance with District Regulation 8, Rules 18 and 25.~~

- a. ~~All pumps, valves and flanges shall be subject to quarterly inspection and maintenance criteria in accordance with the above referenced Regulations.~~
 - b. ~~The leak limitation shall be 100 ppm (express as methane) for flanges, 100 ppm (expressed as methane) for process valves, and 500 ppm (expressed as methane) for pump seals, measured above background at 1 cm from the source.~~
 - c. ~~Within 7 days of detection, all leaks shall be repaired or minimized in accordance with the above referenced Regulations. Any future revision to and/or future requirement of Regulation 8, Rules 18 or 25 shall supersede the above listed requirements only if the new Rule requirement is more stringent than the above criteria.~~
(basis: Regulation 8-18, Regulation 8-25)
2. ~~Deleted.~~ (All new above ground pumps installed or replaced ~~at S-32102 shall be, as a minimum, are BACT compliant~~ double mechanical seals with barrier fluid type.
(basis: BACT)
 3. ~~Deleted.~~ (All new valves in light liquid hydrocarbon service installed or replaced ~~at S-32102 shall be, as a minimum, are BACT compliant~~ graphite gasketed type.)
(basis: BACT)
 4. Deleted (report of final count of actual built valves and flanges, 6/1/99).

Condition #15204

Administratively changed by Application 19419 (June 2009). Updated to remove parts redundant with District regulations.

THE FOLLOWING CONDITIONS FOR THE NO. 1 GAS PLANT COMPRESSOR ENGINES ARE EFFECTIVE JANUARY 1, 1997:

1. Compressor engines S-952, S-953, and S-954 shall be fired exclusively on natural gas. (basis: cumulative increase)
2. ~~Delete (basis: NOx emissions limit Redundant with Regulation 9-8-301.1) NOx emissions from each engine shall not exceed 56 ppmv, dry @ 15% O₂.~~
(basis: Regulation 9-8-301.1)
3. ~~Delete (basis: CO emissions limit Redundant with Regulation 9-8-301.3) CO emissions shall not exceed 2,000 ppmv, dry @ 15% O₂.~~
(basis: Regulation 9-8-301.3)

4. Delete (basis: [Particulate emissions limit redundant with Regulation 6-1-301](#)) ~~Visible particulate emissions shall not exceed 1 on the Ringelmann chart.~~
~~—— (basis: Regulation 6-301)~~

Condition 16516

Application 18835/18832 (2008) New Gasoline Station

Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

For each above ground storage tank, the Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within **fifteen (15)** days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter “Annual” in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087 or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco, CA 94109). (Basis: [Regulation 8-7-407](#))

Condition 16685

AVON REFINERY

CONDITION ADDED 09/02/99

[Application 18739 \(November 2008\) Removal of S-903 & S-924](#)

[Application 19300 \(December 2008\) Removed S-904 No. 6 Boiler House \(because S-904 is included in Condition 17322\)](#)

[Administratively Revised via Application 19647 \(March 2009\) Consolidation of Bubble Condition 4357 with Condition 8077](#)

[Administratively Deleted by Application 19874 \(July 2009\) Updates for Combustion Sources – Combined with Condition 18372.](#)

Administratively Reinstated Part 1 by Application 21464 (April 2010)

Condition-Part #1:

Permittee/Owner/Operator shall ensure that each combustion source listed below does 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.

District Source Number (#)	Firing Rate Used for Fees (MMBTU/hr)	Firing Rate Enforceable Limit (MMBTU/day)	District/ Permittee Source Description
S-903	740	17760	#5 Boilerhouse
S-904	775	20352	#6 Boilerhouse
S-908	220	5280	#8 Furnace No. 3 Crude Heater
S-909	145	3480	#9 Furnace #1 Feed Prep. Heater
S-912	135	3240	#12 Furnace -#1 Feed Prep. Heater
S-913	59	1416	#13 Furnace -#2 Feed Prep. Heater
S-915	20	480	#15Furnace -Plat former Intermediate Heater
S-916	55	1320	#16 Furnace -#1 HDS Heater
S-917	18	432	#17 Furnace -#1 HDS Prefractionator Reboiler
S-919	65	1560	#19Furnace -#2 HDS Depentanizer Reboiler
S-920	63	1512	#20 Furnace -#2 HDS Charge Heater
S-921	63	1512	#21 Furnace -#2 HDS Charge Heater
S-922	130	3120	#22 Furnace -#5 Gas Debutanizer Reboiler
S-924	16	384	#24 Furnace Coker Anti-Cooking Steam Superheater
S-926	145	3480	#26 Furnace -#2 Reformer Splitter Reboiler
S-927	280	6720	#27 Furnace -#2 Reformer Heater AND Reheating
S-928	20	480	#28 Furnace -HDN Reactor A Heater
S-929	20	480	#29 Furnace -HDN ReactorB Heater
S-930	20	480	#30 Furnace -HDN Reactor C Heater
S-931	20	480	#31 Furnace -Hydrocracker Reactor 1 Heater
S-932	20	480	#32 Furnace -Hydrocracker Reactor 2 Heater
S-933	20	480	#33 Furnace -Hydrocracker Reactor 3 Heater
S-934	152	3648	#34 Furnace -Hydrocracker Stabilizer Reboiler
S-935	152	3648	#35 Furnace -Hydrocracker Splitter Reboiler
S-937	743	17832	#37 Furnace -Hydrogen Plant Heater
S-950	440	10560	#50 Furnace - 50 Unit Crude Heater @ 50 Unit
S-951	30	720	#51 Furnace-#2 Reformer Auxiliary Reheater
S-971	300	7200	#53 Furnace -#3 Reformer UOP Furnace
S-972	45	1080	#54 Furnace -#3 Reformer Debutanizer Reboiler
S-973	55	1320	#55 56 -Furnace-No 3 HDS Fractionator Feed Recycle Gas Heater
S-974	110	2640	#56 55 -Furnace-No 3 HDS Fractionator Feed Reecyle Gas-Heater

(basis: cumulative increase, Regulation 2-1-403, Bubble Condition 4357/8077 for S917 via Application 19647)

Condition #2:

In a District approved log (or logs), in units of therms or MMBtu, Permittee/Owner/Operator shall record the amount of each fuel fired at each of S-904, S-908, S-909, S-912, S-913, S-915, S-916, S-917, S-919, S-920, S-921, S-922, S-924, S-926, S-927, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-935, S-937, S-950, S-951, S-971, S-972, S-973, and S-974, based on each fuel's HHV, for each month and each rolling 12 consecutive month period. Permittee/Owner/Operator shall ensure that the log or logs are retained on site for not less than 5 years from date of last entry and that each log is made available to the District staff upon request.
(basis: cumulative increase, Regulation 2-1-403)

Condition 16729

~~All Cold Cleaners out of service or switched to exempt service via Application 18997~~

- ~~S-857 — Cold Cleaner; Machine Shop Governor Room, Greymills Model: 500 A, Capacity: 35 Gallons~~
- ~~S-858 — Cold Cleaner; Machine Shop Lapping Room, Custom Design, Capacity: 25 Gallons~~
- ~~S-859 — Cold Cleaner; Machine Shop, Greymills Model: 500 A, Capacity: 35 Gallons~~
- ~~S-860 — Cold Cleaner; Tool Room, Safety Kleen Model: STD-32, Capacity: 25 Gallons~~
- ~~S-861 — Cold Cleaner; Auto Shop, Safety Kleen Model: 30.3R, Capacity: 30 Gallons~~
- ~~S-1455 — Cold Cleaner; Auto Shop, Safety Kleen Portable Model: 60, Capacity: 6 Gallons~~
- ~~S-1456 — Cold Cleaner; I & E Shop, Power Systems, Inc. Parts Washer, Capacity: 30 Gallons~~
- ~~S-1457 — Cold Cleaner; Compressor Shop, Safety Kleen Model: SK-34, Capacity: 34 Gallons~~
- ~~S-1458 — Cold Cleaner; Valve Shop, Safety Kleen Model: SK-34, Capacity: 34 Gallons~~

~~1. The combined net usage of Naturalizer (terpenichydrocarbon) and Safety Kleen 105 Solvent (99.8% stoddard solvent and 0.2% perchloroethylene) at each source listed below shall not exceed the limit specified in any consecutive 12 month period:~~

source	net usage limit
S-857	50 gallons
S-858	50 gallons
S-859	50 gallons
S-860	50 gallons
S-861	50 gallons
S-1455	25 gallons
S-1456	50 gallons
S-1457	50 gallons
S-1458	50 gallons

~~(basis: cumulative increase, toxics)~~

~~2. Cleanup solvent other than the material(s) specified in Condition 1, and/or usage in excess of that specified in Condition 1, may be used, provided that the Owner/Permittee/Operator can demonstrate that all of the following are satisfied:~~

- a. ~~Total POC emissions from each of S-857, S-858, S-859, S-860, S-861, S-1456, S-1457, S-1458 do not exceed 335 pounds in any consecutive 12-month period; and~~
 - b. ~~Total POC emissions from S-1455 do not exceed 167.5 pounds in any consecutive 12-month period; and~~
 - c. ~~NPOC emissions are not emitted from S-857, S-858, S-859, S-860, S-861, S-1455, S-1456, S-1457, S-1458; and~~
 - d. ~~The use of these materials does not increase toxic emissions above any risk screening trigger level set forth in Regulation 2, Rule 5. (basis: cumulative increase, toxics)~~
3. ~~To determine compliance with the above conditions, the Owner/Permittee/Operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including the following information:~~
- a. ~~Type and monthly usage of all POC and NPOC containing materials used;~~
 - b. ~~If a material other than those specified in Condition 1 is used, POC, NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Condition 2, on a monthly basis;~~
 - c. ~~Monthly usage and/or mass emission calculations shall be totaled for each consecutive 12-month period.~~

All records shall be retained on-site for five years from the date of entry, and be made available for inspection by District staff upon request. These requirements shall not replace the record keeping requirements contained in any applicable District Regulations. (basis: cumulative increase, toxics)

Condition # 17292

Deleted. A-1423 was not installed. Application 928 was cancelled July, 2004.

~~A-1423—Carbon Adsorption Unit; FMG Vaporscrub or Equivalent, 4 Drums in Series, Each Containing 1800 Pounds of Activated Carbon abating S-1020 #3 UOP Reformer @ Continuous Catalyst Regenerator Vent~~

1. ~~A-1423 shall consist of four drums of activated carbon situated in series with each of the four drums containing not less than 1800 pounds of activated carbon. (basis: toxics)~~
2. ~~Not less frequently than once every 365 consecutive day period, the Permittee/Owner/Operator shall change out all of the activated carbon at A-1423 and replace it such that each of the four drums contains not less than 1800 pounds of unspent activated carbon. (basis: toxics)~~
3. ~~After A-1423 has been in operation for 60 days (1440 hours) abating the (S-1020 #3 UOP Reformer) Continuous Catalyst Regenerator and before A-1423 has been~~

~~in-operation for 90 days (2160 hours) abating the (S-1020 #3 UOP Reformer) Continuous Catalyst Regenerator, the Permittee/Owner/Operator shall ensure that a District approved source test is completed, testing for those specific pollutants tested for in the 1998 California Air Resources Board (CARB) emissions testing on No. 3 Reformer catalyst regenerator vent. The test results shall include all of the data (including emission data and process data) provided in the results of the 1998 CARB emissions testing, including that data contained in the 1998 CARB test results in Table 1-1, Table 1-2, Table 1-3, Table 1-4, Table 1-5, and Table 1-6, except that the data provided shall be specific to the results of the District approved emission testing required pursuant condition number 3 of the conditions imposed pursuant to permit application #431. The District approved (three run) source test shall be conducted while the S-1020 #3 UOP Reformer is in operation at a feed rate and under operating conditions comparable to the process conditions existing at No. 3 Reformer and the No. 3 Reformer CCR during the 1998 CARB emission testing on No. 3 Reformer catalyst regenerator vent. Not more than 45 days after the testing is completed, two identical copies of the test results and supporting test related documentation shall be submitted to the District's Engineering Division.. (basis: start-up, toxics)~~

~~4. After A-1423 has been in operation for 300 days (7200 hours) abating the (S-1020 #3 UOP Reformer) Continuous Catalyst Regenerator and before A-1423 has been in operation for 330 days (7920 hours) abating the (S-1020 #3 UOP Reformer) Continuous Catalyst Regenerator, the Permittee/Owner/Owner shall ensure that a District approved source test is completed, testing for those specific pollutants tested for in the 1998 California Air Resources Board (CARB) emissions testing on No. 3 Reformer catalyst regenerator vent. The test results shall include all of the data (including emission data and process data) provided in the results of the 1998 CARB emissions testing, including that data contained in 1998 CARB test results in Table 1-1, Table 1-2, Table 1-3, Table 1-4, Table 1-5, and Table 1-6, except that the data provided shall be specific to the results of the District approved emission testing required pursuant to condition number 4 of the conditions imposed pursuant to permit application #431. The District approved (three run) source test shall be conducted while the S-1020 #3 UOP Reformer is in operation at a feed rate and under operating conditions comparable to the process conditions existing at No. 3 Reformer and the No. 3 Reformer CCR during the 1998 CARB emission testing on No. 3 Reformer catalyst regenerator vent. Not more than 45 days after the testing is completed, two identical copies of the test results and supporting test related documentation shall be submitted to the District's Engineering Division. (basis: toxics)~~

~~5. The Permittee/Owner/Operator shall maintain a District approved log on site for at least 5 years after last entry and the log shall be made available to the District staff upon request. The Permittee/Owner/Operator shall maintain the following information in the District approved log:~~

- A. ~~For each of the four carbon holding drums at A-1423, the date and time of each carbon change out, including the amount of carbon removed from each drum at A-1423 and the amount of unspent activated carbon added to each drum at A-1423.~~
- B. ~~The number of hours (or fractions thereof) each day, that the Continuous Catalyst Regenerator (at S-1020 #3 UOP Reformer) is operated without abatement by A-1423.~~
- C. ~~The date of each emission source test on the exit gas stream from A-1423 while A-1423 is abating the CCR vent at S-1020 #3 UOP Reformer.~~
- D. ~~The date of each emission source test on the exit gas from the CCR vent at S-1020 #3 UOP Reformer. (basis: toxics, record keeping)~~

Condition # 17322

APPLICATION 19418; ~~TOSCO AVON REFINERY~~; PLANT NO. ~~1314628~~

Application 19300 (December 2008) Remove S-904 Backup CO Boiler Service

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Conditions for Industrial Boiler S-904 (No. 6 Boiler):

1. Permittee/Owner/Operator shall ensure that Boiler S-904 is not fired above its maximum firing rate of 775 MMBTU/hr (HHV) heat input at any time.
(basis: cumulative increase, offsets, toxics)
 - 1a. S-904, boiler # 6 shall burn only gaseous fuels. (basis: cumulative increase)
2. Permittee/Owner/Operator shall ensure that Boiler S-904 is retrofitted with and abated by A-904, ~~Selective Catalytic Reduction (SCR) system, for the Refinery to achieve compliance with the facility wide NO_x limit of Regulation 9-10-301, 0.033 lb NO_x/MMBTU, and source specific CO limit of Regulation 9-10-305, 400 ppmvd @ 3% O₂, in accordance with the District-approved control plan submitted under Regulation 9-10-401.~~
(basis: ~~Regulation 9-10-302, Regulation 9-10-305, Regulation 9-10-401~~)
3. ~~Deleted. (Fuel flow meter installed).~~ Permittee/Owner/Operator shall ensure that Boiler S-904 is equipped with a dedicated District approved fuel flow meter in each fuel line in accordance with Regulation 9-10-502.2.
Permittee/Owner/Operator shall ensure that each flow meter is in operation prior

~~to the performance of the initial source test described in Condition No. 6, and that each flow meter is maintained in good working order.
(basis: Regulation 9-10-502.2)~~

4. Permittee/Owner/Operator shall ensure that Boiler S-904 is equipped with District-approved, in-stack continuous emission monitoring systems (CEMS) for nitrogen oxides (NO_x), carbon monoxide (CO), and oxygen (O₂) prior to July 1, 2000. The CEMS shall be maintained in good working order in accordance with the District Manual of Procedures, Volume V.
(basis: Regulation 9-10-302, Regulation 9-10-305)
- 4a. ~~Deleted. (S-904 no longer providing backup Coker CO Boiler service so the requirements of Regulations 1-520.6 and 6-1-302 no longer apply.)~~ Effective June 1, 2004, Permittee/Owner/Operator shall install a continuous opacity monitor to ensure that the emission is not greater than 20% opacity for a period or periods aggregating more than three minutes in any hour when the boiler is burning coker flue gas.
(basis: Regulation 6-302)
5. Permittee/Owner/Operator shall ensure that ammonia stack emissions from Boiler S-904 resulting from the operation of A-904 SCR system shall not exceed 20 ppmv, dry @ 3% O₂. (basis: toxics)
6. Permittee/Owner/Operator shall ensure that ~~a semi-annual source test after modification of S-904, an initial source test for NO_x and CO shall be performed in accordance with Regulation 9-10-501,~~ for ammonia, in accordance with the District Manual of Procedures. In addition to the requirements in this regulation, Permittee/Owner/Operator shall ensure that the following procedures are followed:
 - A. Permittee/Owner/Operator shall submit a source test protocol to the Manager of the District's Source Test Section at least seven (7) days prior to the test, for District approval and to provide District staff the option of observing the testing.
 - B. Permittee/Owner/Operator shall ensure that source test conditions are representative of the normal operating ranges and conditions of the boiler.
 - C. Permittee/Owner/Operator shall ensure that within ~~45-60~~ days of test completion, a comprehensive report of the test results shall be submitted to the District's Director of Enforcement.
 - D. ~~Deleted. (Initial source tests completed. Semiannual Ammonia source test now included in Part 6.)~~ Permittee/Owner/Operator shall ensure that the ammonia source test shall be repeated on a semi-annual basis.
(basis: Regulation 9-10-501, toxics)
7. ~~Deleted. (Basis: Redundant with Regulation 9-10-504.1). Hourly records of the type and amount of fuel burned at Boiler S-904, the continuous emission monitoring (CEMS) measurements for NO_x, CO, and O₂, and source test data for~~

~~NO_x, CO, O₂, and ammonia shall be maintained in a District approved log for at least 5 years and made available to District staff upon request. (basis: toxics, offsets, cumulative increase)~~

8. ~~Deleted. (Basis: Redundant with Condition 8077, added via Application 19300). Boiler S-904 shall continue to be subject to the Refinery Cap Permit No. 27769, Condition ID No. 4357. (basis: offsets, bubble)~~

CONDITIONS FOR FURNACES S-916 AND S-921:

9. ~~Deleted. (Maximum firing rates of S-916 and S-921 are included in Condition 166858372, Part 127.) Permittee/Owner/Operator shall ensure that Furnace S-916 and Furnace S-921 are not fired above the indicated maximum firing rate (HHV) at any time, heat input basis:~~
~~———— S-916 ————— 55 MMBTU/hr~~
~~———— S-921 ————— 63 MMBTU/hr~~
~~———— (basis: cumulative increase, offsets, toxics)~~
10. ~~Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002.)~~
~~Permittee/Owner/Operator shall ensure that Furnace S-916 and Furnace S-921 are modified by the installation of low NO_x burners for the Refinery to achieve compliance with the facility wide NO_x limit of Regulation 9-10-302, 0.033 lb NO_x/MMBTU, and source specific CO limit of Regulation 9-10-305, 400 ppmvd @ 3% O₂, in accordance with the District approved control plan submitted under Regulation 9-10-401.~~
~~(basis: Regulation 9-10-302, Regulation 9-10-305, Regulation 9-10-401)~~
11. ~~Deleted. (The fuel meter requirement is redundant with Regulation 9-10-502.2.) Furnaces S-916 and S-921 shall each be operated with a dedicated fuel flow meter in each fuel line in accordance with Regulation 9-10-502.2. Each flow meter shall be in operation prior to the performance of the initial source test described in Condition No. 4, and maintained in good working order.~~
~~———— (basis: Regulation 9-10.502.2)~~
12. ~~Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002.)~~
~~Permittee/Owner/Operator shall ensure that after semi-annual source tests for NO_x and CO are performed on each furnace, S-916 and S-921 are modified an initial set of source tests for NO_x and CO shall be performed on each furnace, S-916 and S-921, in accordance with Regulation 9-10-501. In addition to the requirements in Regulation 9-10, Permittee/Owner/Operator shall ensure that the following procedures are followed:~~

- ~~A. Permittee/Owner/Operator shall submit a source test protocol to the Manager of the District's Source Test Section at least seven (7) days prior to the test, for District approval and to provide District staff the option of observing the testing.~~
- ~~B. Permittee/Owner/Operator shall ensure that source test conditions encompass the normal operating ranges and conditions of each furnace.~~
- ~~C. Permittee/Owner/Operator shall ensure that within 45 days of test completion, a comprehensive report of the test results shall be submitted to the District's Director of Enforcement.~~
- ~~D. Permittee/Owner/Operator shall ensure that these source tests are repeated on a semi-annual basis.~~
13. ~~Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002. Monitoring and Source Test requirements for existing burners are located in NOx Box Condition 18372.)~~Permittee/Owner/Operator shall satisfy the requirement to monitor NOx, CO, and O2 pursuant to Regulation 9-10-502 for S-916 and S-921 through the performance of the initial and periodic source tests described in Part 12. The frequency of the periodic source testing may be adjusted by the District to maintain compliance verification with the NOx standard of Regulation 9-10-302 and the CO standard of Regulation 9-10-305, and the consistency with the District approved control plan submitted under Regulation 9-10-401.
14. ~~Deleted. (The recordkeeping requirement is redundant with a more stringent Regulation 9-10-504.)~~In a District approved log, Permittee/Owner/Operator shall record and retain hourly records of the type and amount of each fuel burned at each furnace in addition to all emission source test data that is generated pursuant to these conditions. The District approved log shall be maintained for at least 5 years from date of entry and shall be made available to District staff upon request.
15. ~~Deleted. Redundant with Condition 8077, Part B2.~~Permittee/Owner/Operator shall ensure that Furnace S-916 and Furnace S-921 are operated in compliance with the Refinery Cap Permit No. 27769, Condition ID No. 4357.

Condition #17477

APPLICATION 669 TANK RECONFIGURATION PROJECT TRACTS 4 & 6 (2000-2001)

APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

ADMINISTRATIVELY CHANGED BY APPLICATION 21711 (MAY 2010). DELETED PARTS B1 THROUGH B6.

S-1461 External Floating Roof Tank; Capacity: 240,000 BBL, Storing: Crude Oil

A1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1461 does not exceed 50,000,000 barrels (2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)

A2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1461 is less than or equal to 10 psia. (basis: cumulative increase)

A3) Deleted. Compliance with the tank design criteria was verified when S-1461 was granted a Permit to Operate in 2001 via Application 669.

~~Permittee/Owner/Operator shall ensure that S-1461 is of welded construction, that its primary seal is a liquid mounted mechanical shoe seal, that its secondary seal is a zero gap rim mounted seal, that all roof penetrations are gasketed, that each adjustable roof leg is fitted with a vapor seal boot, that each slotted guide pole is equipped with a float and a wiper seal and a pole sleeve. (basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb)~~

A4) Deleted. Final fitting count was verified for S-1461 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.

~~Because the District's emission calculation for S-1461 is based, in part, on the Permittee's disclosure that S-1461 will be equipped with the following deck fittings, in the number indicated in parenthesis:~~

- ~~access hatch (1)~~
- ~~automatic gauge float well (1)~~
- ~~roof drain (1)~~
- ~~adjustable roof leg (80)~~
- ~~slotted guide pole sample well (1)~~
- ~~vacuum breaker (2)~~

~~Permittee/Owner/Operator shall ensure that, if after construction of S-1461, the actual deck fitting type and/or count is different from what is described above, then the permit will be amended to account for these changes and the Permittee/Owner/Operator will provide additional offsets, consistent with the changes, as required by the District. (basis: cumulative increase, toxics, offsets)~~

A5) VOC/petroleum material other than Crude Oil may be throughput to or stored at S-1461, if all of the following are satisfied:

- a) the storage of each material complies with all other conditions applicable this source
- b) the storage of each material complies with all other applicable regulatory requirements
- c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1461 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)

A6) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1461, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1462 External Floating Roof Tank; Capacity: 240,000 BBL, Storing:
Crude Oil or HDS Gas Oil ([Source not constructed; Application 699 Authority to Construct cancelled in 2002.](#))

B1) [Deleted. \(Source not constructed; Application 699 Authority to Construct cancelled in 2002.\)](#)~~The total throughput of all VOC/petroleum materials to S-1462 shall not exceed 50,000,000 barrels (2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)~~

B2) [Deleted. \(Source not constructed; Application 699 Authority to Construct cancelled in 2002.\)](#)~~The true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1462 shall be less than or equal to 10 psia. (basis: cumulative increase)~~

B3) [Deleted. \(Source not constructed; Application 699 Authority to Construct cancelled in 2002.\)](#)~~S-1462 shall be of welded construction, its primary seal shall be a liquid mounted mechanical shoe seal, its secondary seal shall be a zero gap rim mounted seal, all roof penetrations shall be gasketed, each adjustable roof leg shall be fitted with a vapor seal boot, each slotted guide pole shall be equipped with a float and a wiper seal and a pole sleeve. (basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb)~~

B4) [Deleted. \(Source not constructed; Application 699 Authority to Construct cancelled in 2002.\)](#)~~The District's emission calculation for S-1462 is based, in part, on the Permittee's disclosure that S-1462 will be equipped with the following deck fittings, in the number indicated in parenthesis:
access hatch (1)
automatic gauge float well (1)
roof drain (1)~~

~~adjustable roof leg (68)
slotted guide pole sample well (1)
vacuum breaker (2)~~

~~If after construction of S-1462, the actual deck fitting type and/or count is different from what is described above, then the permit will be amended to account for these changes and the Permittee/Owner/Operator will provide additional offsets, consistent with the changes, as required by the District. (basis: cumulative increase, toxics, offsets)~~

B5) ~~Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)VOC/petroleum material other than Crude Oil or HDS Gas Oil may be throughput to or stored at S-1462, if all of the following are satisfied:~~
a) ~~the storage of each material complies with all other conditions applicable this source~~
b) ~~the storage of each material complies with all other applicable regulatory requirements~~
c) ~~the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1462 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)~~

B6) ~~Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1462, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on-site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)~~

S-1463 External Floating Roof Tank, Capacity: 240,000 BBL,
Storing: Crude Oil or HDS Gas Oil

C1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1463 does not exceed 50,000,000 barrels (2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)

C2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1463 is less than or equal to 10 psia. (basis: cumulative increase)

C3) ~~Deleted. Compliance with the tank design criteria was verified when S-1463 was granted a Permit to Operate in 2001 via Application 669.~~
~~Permittee/Owner/Operator shall ensure that S-1463 is of welded construction, that~~

~~its primary seal is a liquid mounted mechanical shoe seal, that its secondary seal is a zero gap rim mounted seal, that all roof penetrations are gasketted, that each adjustable roof leg is fitted with a vapor seal boot, that each slotted guide pole shall be equipped with a float and a wiper seal and a pole sleeve. (basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10-Subpart Kb)~~

- C4) Deleted. Final fitting count for S-1463 was verified in a 2008 audit. Offsets were adjusted in August 2002 via Application 669. The District's emission calculation for S-1463 is based, in part, on the Permittee's disclosure that S-1463 will be equipped with the following deck fittings, in the number indicated in parenthesis:
- access hatch (1)
 - automatic gauge float well (1)
 - roof drain (1)
 - adjustable roof leg (80)
 - guide pole sample well (1)
 - vacuum breaker (2)

~~If after construction of S-1463, the actual deck fitting type and/or count is different from what is described above, then the permit will be amended to account for these changes and the Permittee/Owner/Operator will provide additional offsets, consistent with the changes, as required by the District. (basis: cumulative increase, toxics, offsets)~~

- C5) VOC/petroleum material other than Crude Oil or HDS Gas Oil may be throughput to or stored at S-1463, if all of the following are satisfied:
- a) the storage of each material complies with all other conditions applicable this source
 - b) the storage of each material complies with all other applicable regulatory requirements
 - c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1463 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- C6) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1463, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1464 External Floating Roof Tank, Capacity: 100,000 BBL,
Storing: Jet A or Diesel or Kerosene

D1) The total throughput of all VOC/petroleum materials to S-1464 shall not exceed 10,000,000 barrels (420,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)

D2) The true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1464 shall be less than or equal to 0.2 psia. (basis: cumulative increase)

D3) Deleted. Final fitting count was verified for S-1464 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669. ~~The District's emission calculation for S-1464 is based, in part, on the Permittee's disclosure that S-1464 will be equipped with the following deck fittings, in the number indicated in parenthesis:~~
~~access hatch (1)~~
~~automatic gauge float well (1)~~
~~roof drain (1)~~
~~adjustable roof leg (50)~~
~~slotted guide pole sample well (1)~~
~~vacuum breaker (2)~~

~~If after construction of S-1464, the actual deck fitting type and/or count is different from what is described above, then the permit will be amended to account for these changes and the Permittee/Owner/Operator will provide additional offsets, consistent with the changes, as required by the District. (basis: cumulative increase, toxics, offsets)~~

D4) VOC/petroleum material other than Jet A or Diesel or Kerosene may be throughput to or stored at S-1464, if all of the following are satisfied:

- the storage of each material complies with all other conditions applicable this source
- the storage of each material complies with all other applicable regulatory requirements
- the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1464 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)

D5) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1464, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1465 EXTERNAL FLOATING ROOF TANK, CAPACITY: 100,000 BBL,
 STORING: JET A OR DIESEL OR KEROSENE

- E1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1465 does not exceed 10,000,000 barrels (420,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)
- E2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1465 is always less than or equal to 0.2 psia. (basis: cumulative increase)
- E3) Deleted. Final fitting count was verified for S-1465 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669. ~~The District's emission calculation for S-1465 is based, in part, on the Permittee's disclosure that S-1465 will be equipped with the following deck fittings, in the number indicated in parenthesis:~~
access hatch (1)
automatic gauge float well (1)
roof drain (1)
adjustable roof leg (50)
slotted guide pole sample well (1)
vacuum breaker (2)

~~If after construction of S-1465, the actual deck fitting type and/or count is different from what is described above, then the permit will be amended to account for these changes and the Permittee/Owner/Operator will provide additional offsets, consistent with the changes, as required by the District. (basis: cumulative increase, toxics, offsets)~~

- E4) VOC/petroleum material other than Jet A, Diesel, or Kerosene may be throughput to or stored at S-1465, if all of the following are satisfied:
- Permittee/Owner/Operator ensures that the storage of each material complies with all other conditions applicable this source
 - Permittee/Owner/Operator shall ensure that the storage of each material complies with all other applicable regulatory requirements
 - the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1465 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- E5) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1465, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

Condition # 17837

S-817 No. 3 Crude Unit

- 1) Permittee/Owner/Operator shall ensure that the total throughput of all feed materials (i.e., crude oil, slop oil, etc.) to the No. 3 Crude Unit shall not exceed 63,000 barrels per calendar day. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)
- 2) Permittee/Owner/Operator shall ensure that the total throughput of all feed materials to the No. 3 Crude Unit shall not exceed 22,995,000 barrels per rolling 365 consecutive day period. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)
- 3) In a District approved log, the Permittee/Owner/Operator shall record the volume (in barrels) of all feed materials throughput to the No. 3 Crude Unit during each calendar day and during each rolling 365 consecutive calendar day period. The permittee shall retain the District approved log on site for not less than 5 years from date of last entry and the permittee shall be make the log available to the District staff upon request. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)

Condition #18372

Application #2209 and 16484

Plant #14628

Application 15682 (April, 2007) Initial establishment of NOx box parameters. Delete part 4.

Application 14752 (January 2007) S-927 modification of (Part 18).

Application 16888 (April 2008) Modification of S-913

Application 16889 (June 2008) Modification of S-951

Modified by App. 18739 (Nov 2008) Removal of S924 from Parts 27 and 31

Application 19300 (December 2008) Removed S-904 Backup CO Boiler Service

Application 18748 (December 2008) Modification of S-919

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Application 20359 (June 2009) Modification of S-920

~~Application 21072 (October 2009) Modification of S-912~~

Application 20259 (February 2010) Modification of S-909

Application 17470 (February 2010) Modification of S-916

Application 21732 (May 2010) Modification of S-919

Administratively Reinstated Source List, Part 3 and Part 27 by Application 21464 (April 2010)

S-904 No. 6 Boiler; Riley Stoker, Maximum Firing Rate: 775 MMBtu/hr

- S-912 No. 12 Furnace F-12; Born, Maximum Firing Rate: 135 MMBtu/hr, No. 1 Feed Prep Unit Vacuum Residuuum Feed Heater with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-913 No. 13 Furnace F-13; Petrochem, Vertical Cylindrical, Maximum Firing Rate: 59 MMBtu/hr, No. 2 Feed Prep Unit Vacuum Residuuum Feed Heater with Callidus Technologies Inc. LE-CSG Low NOx Burners or equivalent
- S-916 No. 1 HDS Charge Heater F-16; Braun, Cabin; Maximum Firing Rate: 55 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-919 No. 2 HDS Charge Heater, No. 19 Furnace, Foster Wheeler, Maximum Firing Rate: 65 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-920 No. 2 HDS Charge Heater, No. 20 Furnace, Foster Wheeler, Maximum Firing Rate: 63 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-921 No. 2 HDS Charge Heater F-21; Foster Wheeler, Cabin; Maximum Firing Rate: 63 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-922 No. 5 Gas Plant Debutanizer Reboiler F-22; Petrochem, Vertical Cylindrical; Maximum Firing Rate: 130 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-926 No. 2 Reformer Splitter Reboiler, No. 26 Furnace, Petrochem, Maximum Firing Rate: 145 MMBtu/hr with Callidus Technologies Inc. LE-CSG-W Low NOx Burners or equivalent
- S-927 No. 2 Reformer Reactor Feed Preheater F-27; Lummus Multicell Cabin; Maximum Firing Rate: 280 MMBtu/hr abated by A-1431 Technip Selective Catalytic Reduction System w Hitachi Catalyst or equivalent
- S-950 No. 50 Unit Crude Feed Heater F-50; Alcorn, Box; 440 MMBtu/hr abated by A-1432 Technip Selective Catalytic Reduction System w Hitachi Catalyst or equivalent
- S-971 No. 3 Reformer Feed Preheater F-53; KTI, Multicell Box; Maximum Firing Rate: 300 MMBtu/hr abated by A-1433 Technip Selective Catalytic Reduction System w Hitachi Catalyst or equivalent

S-972 No. 3 Reformer Debutanizer Reboiler F-54; KTI, Vertical Cylindrical; Maximum Firing Rate: 45 MMBtu/hr abated by A-1433 Technip Selective Catalytic Reduction System w Hitachi Catalyst or equivalent

- 1.) ~~Deleted. (The fuel meter requirement is redundant with Regulation 9-10-502.2.) Permittee/Owner/Operator shall ensure that each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, S-926, S-927, S-950, S-971, and S-972 is equipped with a District approved dedicated fuel flow meter consistent with Regulation 9, Rule 10, Section 502.2. (basis: Regulation 9, Rule 10, Section 502.2)~~
- 2.) Permittee/Owner/Operator shall ensure that each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, S-926, S-927, S-950, S-971, and S-972 is fired exclusively on natural gas and/or refinery fuel gas. (basis: Regulation 9, Rule 10)
- 3.) Permittee/Owner/Operator shall ensure that the maximum firing rate of each source listed does not exceed the corresponding HHV maximum firing rate, based on an operating day average (the amount of fuel fired over each 24 hour day divided by 24:

Source (#)	Maximum Firing Rate (HHV) (mmBtu/hr)	Maximum Firing Rate (HHV) (mmBtu/yr)
S-912	135	1,182,600
S-913	59	516,840
S-916	55	481,800
S-919	65	569,400
S-920	63	551,880
S-921	63	551,880
S-922	130	1,138,800
S-926	145	1,270,200
S-927	280	2,452,800
S-950	440	3,854,400
S-971	300	2,628,000
S-972	45	394,200

(basis: Regulation 9, Rule 10)

- 4.) (Deleted: Specific NOx limits should not have been applied to S-912 and S-926, since they are both regulated under Regulation 9-10-301.) ~~Basis: Regulation 9-10-301.~~
- 5.) Deleted. Replaced with Part 30.
- 6.) Deleted. Replaced with Part 31.
- 7.) Deleted. Replaced with Part 31.
- 8.) Deleted. Replaced with Part 31.

- 9.) Deleted. Replaced with Part 31.
- 10.) Deleted. Replaced with Part 31.
- 11.) Deleted. S-921 is out of service. If returned to service, this part will be replaced with Part 31.
- 12.) Deleted. NOx CEM installed on S-922.
- 13.) Deleted. Replaced with Part 31.
- 14.) Deleted. Replaced with Part 33.
- 15.) Deleted. Replaced with Part 33.
- 16.) Deleted. Replaced with Part 34.
- 17.) Deleted. Replaced with Part 35.
- 18.) Combustion exhaust from S-927 shall be ducted to and continuously abated by A-1431 whenever a fuel is fired at S-927, except startup and shutdown as defined by Regulation 9-10-218 and on a temporary basis for catalyst regeneration at S-1004 No. 2 Catalytic Reformer. The exhaust gasses from S-927 and A-1431 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NOx, CO, and O2 in the exhaust gasses, including periods when S-927 is operated without SCR abatement. (basis: Regulation 9, Rule 10)
- 19.) Combustion exhaust from S-950 shall be ducted to and continuously abated by A-1432 whenever a fuel is fired at S-950 and the exhaust gasses from A-1432 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NOx, CO, and O2 in the exhaust gasses. (basis: Regulation 9, Rule 10)
- 20.) Combustion exhaust from S-971 shall be ducted to and continuously abated by A-1433 whenever a fuel is fired at S-971 and the exhaust gasses from A-1433 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NOx, CO, and O2 in the exhaust gasses. (basis: Regulation 9, Rule 10)
- 21.) Combustion exhaust from S-972 shall be ducted to and continuously abated by A-1433 whenever a fuel is fired at S-972 and the exhaust gasses from A-1433 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NOx, CO, and O2 in the exhaust gasses. ~~Part 21 of these conditions shall not take effect until Permittee/Owner/Operator exercises the~~

~~portion of Authority to Construct #2209 authorizing the abatement of S-972 with A-1433. (basis: Regulation 9, Rule 10)~~

- 22.) For each of S-927, S-950, S-971, and S-~~927~~972, ammonia slip from the SCR system abating the source shall not exceed 20 ppmv, dry, corrected to 3% oxygen. (basis: toxics)
- 23.) ~~Deleted. (The recordkeeping requirement is redundant with Regulation 9-10-504.)~~For each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, S-926, S-927, S-950, S-971, and S-972, records shall be kept as required by Regulation 9, Rule 10, Section 504, except that the records shall be retained on site and be made available to the District staff for a period of at least 5 years from date of last entry. (basis: Regulation 9, Rule 10)

~~Part 24 effective until January 1, 2005~~

- 24.) ~~Deleted. (The source test log requirement was effective until January 1, 2005, when the NOx Box recordkeeping requirements became effective.)~~For each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, and S-926, Permittee/Owner/Operator shall record in a District approved log, the time and date of each District approved source test conducted for each source. The log shall be maintained on site and be made available to the District staff on request for at least 5 years from date of last entry. (basis: Regulation 9, Rule 10)
- 25.) ~~Deleted. (The fuel use recordkeeping requirement is redundant with a more stringent Regulation 9-10-504.)~~In a District approved log (or logs), for each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, and S-926, Permittee/Owner/Operator shall record the fuel use during each day at each source based on the fuel's (HHV). Permittee/Owner/Operator shall ensure that the log(s) is(are) maintained on site for at least 5 years from date of last entry and that the log(s) is (are) made available to the District staff upon request. (basis: cumulative increase)
- 26.) ~~Deleted. (S-904 no longer providing backup Coker CO Boiler service so the requirements of Regulation 9-10-304 no longer apply.)~~The No. 6 Boiler (S904) serves as the emergency backup to No. 5 Boiler (S903). During this unusual mode of operation, the No. 6 Boiler is subject to the limits specified in Regulation 9-10-304 for CO Boilers and is considered "out of service" since it acting as the No. 5 Boiler. The historic average, described in Regulation 9-10-301.2 for No. 6 Boiler, will be used for compliance with the 0.033 lb/MMBTU refinery-wide average standard while No. 6 Boiler is operated in CO Boiler mode. (basis: cumulative increase)

~~Parts 27 through 36 are effective January 1, 2005~~

27. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10-~~2~~ (Regulation 9-10-301, 303, & 305)

S#	Description, <u>Maximum Permitted Firing Rate</u>	<u>NOx/CO</u> CEM (Y/N)
S904	No. 6 Boiler <u>House</u>	<u>Y/Y</u>
S908	No. 3 Crude Heater(<u>F8</u>)	<u>Y/N</u>
S909	No. 1 Feed Prep Heater (F9)	<u>N/N</u>
S912	No. 1 Feed Prep Heater (F12)	<u>N/N</u>
S913	No. 2 Feed Prep Heater (F13)	<u>N/N</u>
S915	Platformer Intermediate Heater (F15)	<u>N/N</u>
S916	No. 1 HDS Heater (F16)	<u>N/N</u>
S917	No. 1 HDS Prefract Reboiler (F17)	<u>N/N</u>
S919	No. 2 HDS Heater (F19)	<u>N/N</u>
S920	No. 2 HDS Heater (F20)	<u>N/N</u>
S921	No. 2 HDS Heater (F21) (out of service)	<u>N/N</u>
S922	No. 5 Gas Plant Debutanizer Reboiler	<u>Y/N</u>
S924	Coker Anit-Coking Superheater (F24)	N
S926	No.2 Reformer Splitter Reboiler (F26)	<u>N/N</u>
S927	No. 2 Reformer Feed Preheater (F27) & A1431	<u>Y/Y</u>
S928	HDN Reactor A Heater (F28)	<u>N/N</u>
S929	HDN Reactor B Heater (F29)	<u>N/N</u>
S930	HDN Reacator C Heater (F30)	<u>N/N</u>
S931	Hydrocracker Reactor 1 Heater (F31)	<u>N/N</u>
S932	Hydrocracker Reactor 2 Heater (F32)	<u>N/N</u>
S933	Hydrocracker Reactor 3 Heater (F33)	<u>N/N</u>
S934	Hydrocracker Stabilizer Reboiler (F34)	<u>Y/N</u>
S935	Hydrocracker Splitter Reboiler (F35)	<u>Y/N</u>
S937	Hydrogen Plant Heater (F37)	<u>Y/N</u>
S950	No. 50 Unit <u>Crude</u> Feed Heater (F50) & A1432	<u>Y/Y</u>
S951	No. 2 Reformer Aux Reheater (F51)	<u>N/N</u>
S971	No. 3 Reformer <u>UOP Furnace</u> (F53) & A1433	<u>Y/Y</u>
S972	No. 3 Reformer <u>Debutanizer</u> Reboiler (F54) & A1433	<u>Y/Y</u>
S973	No. 3 HDS Recycle Gas Heater (F55)	<u>Y/N</u>
S974	No. 3 HDS <u>Fractionator</u> Feed Heater (F56)	<u>Y/N</u>

28. The owner/operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 27 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. (Regulation 9-10-502)
29. The owner/operator shall operate each source listed in Part 27, which does not have a NOx CEM₁ within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 31. 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 MMBtu/hr or more shall be established using the procedures in Part 30.

- B. The NO_x Box for units with a maximum firing rate less than 25MMBtu/hr 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.
30. The owner/operator shall establish the initial NO_x box for each source subject to Part 29 ~~by January~~ January 1, 2005. The NO_x Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (Regulation 9-10-502)

The procedure for establishing the NO_x box is:

- A. Conduct district approved source tests for NO_x 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 NO_x emission factor (lb/MMmbtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm; the owner/operator may choose to use a higher NO_x emission factor than tested.
- D. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NO_x Box, which represents the allowable operating range(s) for the furnace under which the NO_x emission factor from part 31A is deemed to be valid.
- 1) The NO_x Box can represent/utilize either one or two emission factors.
 - 2) The NO_x Box for each emission factor can be represented either as a 4- or 5-sided polygon. The NO_x 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 NO_x box are listed in Part 31A.
- E. Upon establishment of each NO_x 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.

31. Except as provided in parts 31B & 31C, 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 that has a properly operated and properly installed NOx CEM. (Regulation 9-10-502)

A. NOx Box ranges

Source No.	Emission Factor (lb/MMBtu)	Min O2 at Low Firing (O2% , MMBtu/hr)	Max O2 at Low Firing (O2% , MMBtu/hr)	Min O2 at High Firing (O2% , MMBtu/hr)	Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O2 at High Firing (O2% , MMBtu/hr)
909	0.146	9.5, 27.46 5.6, 53.71	11.7, 30.67 9.6, 41.41	2.1, 83.60	3.1, 67.35	5.7, 76.49
	0.148	11.7, 30.67 9.6, 41.41	11.2, 61.81	2.1, 83.60	5.7, 76.49	7.3, 79.58
912	0.027	2.1, 60.50	3.4, 70.10	1.9, 101.51	4.0, 104.13	5.4, 100.24
	0.034	2.1, 60.50	7.0, 57.57	5.4, 100.24	3.4, 70.10	6.5, 99.68
913	0.027 0.033	1.2, 19.89	3.0, 14.80	1.5, 39.10 1.3, 30.33	2.1, 15.53	3.6, 39.45 4.1, 25.71
<u>913</u>	<u>0.033</u>	<u>3.0, 14.80</u>	<u>4.5, 15.86</u>	<u>3.6, 39.45</u>	N/A	<u>4.2, 39.50</u>
915	0.143	0, 3.85	8.0, 3.85	0.0, 20.00	N/A	8.0, 20.00
	0.098	8.0, 3.85	>8.0, 3.85	8.0, 20.00	N/A	>8.0, 20.00
916	0.09 088	5.7, 9.53	9.3, 9.17	5.4, 30.00	N/A	7.1, 34.00 9.1, 34.05
	0.10 2099	9.3, 9.17	10.6, 24.64	7.1, 34.00 9.1, 34.05	N/A	10.4, 33.11
917	0.061	0.0, 3.60	-, 3.6	0.0, 18.00	N/A	-, 18.00
919	0.047	3.9, 23.30	8.7, 18.568.3, 22.06	6.6, 58.765.8, 48.20	9.2, 39.12	8.0, 60.6810.1, 47.20
	0.056	9.2, 39.128.3, 22.06	9.5, 21.10	8.0, 60.689.2, 39.12	8.7, 18.56 N/A	10.1, 47.20
920	0.046	5.0, 24.84	7.7, 17.86	6.7,55.125.8 ,40.77	7.1, 15.34	8.0, 60.267.3, 42.64
	0.055	7.7, 17.86	10.8, 27.53	8.0, 60.267.3, 42.64	N/A	10.0, 45.15
924	0.106	0.0, 3.20	-, 3.20	0.0, 16.00	N/A	-, 16.00
926	0.032	1.8, 32.81	6.0, 40.89	2.9, 126.72	4.4, 32.81	3.9, 131.59
	0.037	6.0, 40.89	7.0, 77.89	3.9, 131.59	N/A	4.2, 122.33
928	0.044	0.0, 4.00	< 6.0, 4.00	0.0, 20.00	N/A	< 6.0, 20.00
	0.073	6.0, 4.00	> 6.0, 4.00	6.0, 20.00	N/A	> 6.0, 20.00
929	0.024	0.0, 4.00	< 6.0, 4.00	0.0, 20.00	N/A	< 6.0, 20.00
	0.087	6.0, 4.00	> 6.0, 4.00	6.0, 20.00	N/A	> 6.0, 20.00
930	0.033	0.0, 4.00	< 6.0, 4.00	0.0, 20.00	N/A	< 6.0, 20.00
	0.077	6.0, 4.00	> 6.0, 4.00	6.0, 20.00	N/A	> 6.0, 20.00

Source No.	Emission Factor (lb/MMBtu)	Min O2 at Low Firing (O2% , MMBtu/hr)	Max O2 at Low Firing (O2% , MMBtu/hr)	Min O2 at High Firing (O2% , MMBtu/hr)	Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O2 at High Firing (O2% , MMBtu/hr)
931	0.034	0.0, 4.00	< 9.0, 4.00	0.0, 20.00	N/A	< 9.0, 20.00
	0.073	9.0, 4.00	> 9.0, 4.00	9.0, 20.00	N/A	> 9.0, 20.00
932	0.037	0.0, 4.00	< 4.0, 4.00	0.0, 20.00	N/A	< 4.0, 20.00
	0.053	4.0, 4.00	> 4.0, 4.00	4.0, 20.00	N/A	> 4.0, 20.00
933	0.035	0.0, 4.00	< 5.0, 4.00	0.0, 20.00	N/A	< 5.0, 20.00
	0.050	5.0, 4.00	>5.0, 4.00	5.0, 20.00	N/A	> 5.0, 20.00
951	0.1430-111	5.2, 2.68	9.2, 2.21 12.1, 0.78	4.2, 7.78 5.0, 10.42	8.3, 19.3 4.2, 7.78	14.1, 12.7 10.4, 10.19
	0.175	12.1, 0.78	13.6, 1.73	9.2, 2.21 10.4, 10.19	N/A	14.1, 12.7 13.5, 2.61

The limits listed above are based on a calendar day averaging period for both firing rate and O2%.

B. Part 31A. 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 31A. does not apply during any source test required or permitted by this condition. (Reg. 9-10-502). See Part 33 for the consequences of source test results that exceed the emission factors in Part 31.

32. NOx Box Deviations (Regulation 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 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 <= Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 31, or the CO limit in Part 35, 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.

33. For each source subject to Part 29, the owner/operator shall conduct source tests on the schedule listed below. The source tests are performed in order to measure NOx, CO, and O2 at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the district source test manager within 45 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Reg. 9-10-502)

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 \geq 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 > NOx Box Emission Factor

If the results of any source test under this part exceed the permitted concentrations or emission rates the owner/operator shall follow the requirements of Part 32A2. If the owner/operator chooses not to submit an application to revise the emission factor, the owner/operator shall conduct another Part 33 source test, at the same conditions, within 90 days of the initial test.

34. For each source listed in Part 27 with a NOx CEM installed that does not have a CO 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. (Regulation 9-10-502, 1-522)
35. For any source listed in Part 27 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. (Regulation 9-10-502, 1-522)
36. 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 27 and 31. 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. (Recordkeeping, Regulation 9-10-504)

Condition # 18379

Application #3180
Plant #~~12758~~14628

S-940 Industrial Boiler; #1 Boiler @ 4 Boiler House, Maximum Firing Rate: 150 MMBtu/hr

- 1.) The emission reductions quantified pursuant to banking application #3180 granted for the permanent closure of S-940 shall only be used to offset emission increases

occurring at the Avon refinery located at 150 Solano Way in Martinez, California and may be used for no other purpose. (basis: Regulation 2, Rule 4, Section 302.1)

Condition # 18435 — Superseded by Condition 19199

~~S-975 No. 4 Gas Plant Cooling Tower; Marley, 13-24A, with 4 Pumps, Total Maximum Capacity: 4,140,000 Gallons/Hr (Permitted Maximum Operating Capacity: 4,140,000 Gallons/Hr)~~

- ~~1. Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-975 does not exceed 4,140,000 gallons per hour or 69,000 gallons per minute. (basis: cumulative increase, offsets, BACT)~~
- ~~2. Within 30 days after start-up of S-975 pursuant to Authority to Construct #3076, Permittee/Owner/Operator shall conduct District approved testing to measure the actual recirculation cooling tower water flow rate at S-975. Permittee/Owner/Operator shall provide the test data and the test results to the District's Engineering Division within 30 days after the date of the District approved testing. (basis: cumulative increase, offsets, BACT)~~
- ~~3. Effective June 1, 2004, at least once each month, Permittee/Owner/Operator shall ensure that the actual total cooling tower water circulation flow rate at S-975 is measured by a third party using District approved methodology. Permittee/Owner/Operator shall provide the test data and the test results to the District's Engineering Division within 30 days after the date of the testing. (basis: cumulative increase, offsets, BACT)~~

Condition # 18539

Administratively Revised via Application 19647 (February 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

S-908 Furnace F8; No. 3 Crude Heater, Alco, Maximum Firing Rate: 220 MMBtu/hr, Refinery Fuel Gas, Natural Gas abated by A-908 Selective Catalytic Reduction System

S-1470 Furnace F-71; No. 3 Crude Vacuum Distillation Column Feed Heater, Maximum Firing Rate: 30 MMBtu/hr with low NOx burners and abated by A-908 Selective Catalytic Reduction System

- 1) Permittee/Owner/Operator shall ensure that S-1470 is fired exclusively on natural gas or refinery fuel gas. (basis: cumulative increase, toxics)
- 2) Permittee/Owner/Operator shall ensure that S-1470 is not be operated unless it is equipped with a District approved, fuel flow meter that measures the volume of fuel throughput to S-1470 in units of standard cubic feet. (basis: cumulative increase)
- 3A) Permittee/Owner/Operator shall ensure that no refinery fuel gas is fired at S-1470 until a District approved calorimeter is installed and operating at S-1470. Until the District approved calorimeter is installed and operating at S-1470, natural gas shall be the only fuel fired at S-1470. Until the instance when a fuel other than only natural gas is first fired at S-1470, there is no requirement for the Permittee/Owner/Operator to sample the natural gas fired at S-1470 to determine its BTU content. (basis: BACT, cumulative increase, offsets, toxics)
- 3B) Permittee/Owner/Operator shall ensure that once refinery fuel gas is first fired at S-1470 and thereafter, all gaseous fuel fired at S-1470 shall be analyzed using a District approved calorimeter and the results of the analyses shall be recorded using a District approved data logging system. At least 4 times each hour, the calorimeter and data logging system shall measure and record the heating value of the gaseous fuel fired at S-1470 in British thermal units per standard cubic foot of fuel. (basis: BACT, cumulative increase, offsets, toxics)
- 4) Permittee/Owner/Operator shall ensure that the total reduced sulfur content of gaseous fuel fired at S-1470 does not exceed 35 ppmv, based on a rolling 365 day average. (basis: cumulative increase, BACT, offsets)
- 5) Permittee/Owner/Operator shall ensure that the total reduced sulfur content of the fuel gas fired at S-1470 does not exceed 100 ppmv, based on a rolling 24 hour average. (basis: BACT)
- 6) When firing refinery fuel gas, Permittee/Owner/Operator of S-1470 shall operate a District approved device that at least four times per hour, samples the fuel gas to be fired at S-1470 and in ppmv units, measures and records the total reduced sulfur content of the fuel gas. These measurements and recordings shall disclose the rolling 24 hour average value of the total reduced sulfur concentration in the fuel gas in ppmv units as well as the the value of total reduced sulfur concentration in the fuel gas, based on a rolling 365 day average. (basis: BACT)
- 7) When firing refinery fuel gas, at least four times per hour, Permittee/Owner/Operator shall measure and record the total reduced sulfur content of the fuel gas fired at S-1470, in ppmv units. (basis: BACT)

- 8) Permittee/Owner/Operator shall ensure that S-1470 is not be operated unless it is equipped with a District approved continuous emissions monitoring device that continuously measures and records the concentration of nitrogen oxides, in ppmv units, in the combustion exhaust from S-1470 and S-908, corrected to 3% oxygen ~~ppmv~~, dry, and the device must measure and record the oxygen concentration of the combustion exhaust from S-1470 and S-908. (basis: cumulative increase, BACT, offsets)
- 9) Permittee/Owner/Operator shall ensure that the total fuel use at S-1470 does not exceed 262,800 MMBTU during any rolling 12 consecutive month period.
basis: cumulative increase, toxics, offsets)
- 10) Permittee/Owner/Operator shall ensure that NOx emissions from S-1470 do not exceed 10 ppmv, dry, at 3% oxygen, based on a three hour average.
(basis: BACT, cumulative increase, offsets)
- 11) Permittee/Owner/Operator shall ensure that CO emissions from S-1470 do not exceed 50 ppmv, dry, at 3% oxygen. (basis: BACT, cumulative increase, offsets)
- 12) Permittee/Owner/Operator shall ensure that POC emissions from S-1470 do not exceed 0.683 ton per rolling consecutive 12 month period. (basis: cumulative increase, offsets)
- 13) Permittee/Owner/Operator shall ensure that PM-10 emissions from S-1470 do not exceed 0.946 ton per rolling consecutive 12 month period. (basis: cumulative increase, offsets)
- 14) Permittee/Owner/Operator shall ensure that SO2 emissions from S-1470 do not exceed 1.793 ton per rolling consecutive 12 month period.
basis: cumulative increase, BACT, offsets)
- 15) Permittee/Owner/Operator shall ensure that ensure that S-1470 is abated by A-908 at all times that a fuel is fired at S-1470 except for 144 hours during any rolling 12 consecutive month period. The 144 hours is for start-up of S-1470. At all times other than the 144 hours per 12 consecutive month period, while a fuel is fired at S-1470, S-1470 shall be abated by A-908 and there shall be ammonia injection at A-908. (basis: BACT)
- 16) Permittee/Owner/Operator shall ensure that ammonia slip from A-908 does not exceed 20 ppmv, dry, at 3% oxygen, based on a 3 hour average. The owner/operator of A-908 shall conduct an annual source test, in accordance with the District's Manual of Procedures, to demonstrate compliance with the NH3 emission limit.- (basis: toxics, cumulative increase, offsets, Bubble Condition 8077 per Application 19647)

- 17) Deleted. (Initial Source Test completed April 10, 2002.)
~~Permittee/Owner/Operator shall conduct a District approved source test of S-1470 within 30 days after the first date that fuel is first fired at S-1470. The District approved source test shall measure the emission rate of NO_x, CO, POC, SO₂, and PM-10 from S-1470 while it is operated at or near its maximum firing rate. For POC, EPA Method 25-A shall be used, for PM-10 CARB Method 501 shall be used. Permittee/Owner/Operator shall ensure that within 30 days of the date of completion of the source test, two identical copies of the results of the source test, each referencing permit application #2813 and plant #1275814628 are received by the District, that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division. (basis: cumulative increase, offsets)~~
- 17A) At least once per calendar year, Permittee/Owner/Operator shall ensure that a District approved source test is conducted for S-1470 measuring its CO emission rate and that the testing is done in compliance with the District's Manual of Procedures. ~~Permittee/Owner/Operator shall ensure that the first District approved source for S-1470 is completed pursuant to condition 18539 part 17A no later than January 31, 2005.~~ (basis: Regulation 2-1-403; Regulation 9-10)
- 17B) Permittee/Owner/Operator shall ensure that within 45 days of the date of completion of the (each) District approved source test required by condition 18539 part 17A, two identical copies of the results of the source test, each referencing S1470, condition 18539 part 17A and part 17B, and plant #1275814628 are received by the District and that both copies are addressed to the District's Engineering Division.
(basis: Regulation 2-1-403; Regulation 9-10)
- 18) In a District approved log, Permittee/Owner/Operator shall record, for S-1470 and S-908, the amount of each fuel fired at each source, the Btu value of the fuel fired at each source, the concentration of nitrogen oxides in the exhaust from S-1470 and S-908, the oxygen content in the combustion exhaust from S-1470 and S-908. For the fuel gas fired at S-1470, Permittee/Owner/Operator shall record the total reduced sulfur content and hydrogen sulfide content, sampled 4 times each hour, averaged over each 365 consecutive day period and averaged over each 24 consecutive hour period. The log shall be retained on site for at least 5 years from date of last entry, and shall be made available to the District staff upon request
(basis: cumulative increase, offsets)
- 18A.) Permittee/Owner/Operator shall ensure that the maximum firing rate of S908 does not exceed the 1,927,200 MMBtu/yr based on the HHV of each fuel fired, during every 365 consecutive day period:
(basis: cumulative increase)

- 19) Deleted. (S-906 and S-907 have been removed from service.)
Permittee/Owner/Operator shall ensure that neither S-906 nor S-907 is operated after the start-up of S-1470. S-906 and S-907 shall be treated as new sources as defined in Regulation 2 Rule 2, if either is operated after any fuel is fired at S-1470. S-906 and/or S-907 shall not be operated concurrently with S-1470.
(basis: offsets)
- 20) If, based on District approved source test results, emissions from S-1470 exceed permitted and/or offset emission levels, Permittee/Owner/Operator shall provide additional District approved emission reduction credits to the District in the amount and of the type determined by the District to be due.
(basis: offsets)

Condition 18946

Condition Deleted by Application 19419XXXXX (December 2008) (superseded by Condition 22851 for firewater pumps)

~~S-1469 Emergency Standby Engine: Diesel Engine, Make: Cummins, Model: NTA 855-C, Power Rating: 400 HP.~~
~~S-1477 Emergency Standby Engine: Diesel Engine, Make: Cummins, Model: NHC 4 B1, Power Rating: 110 HP.~~
~~S-1471 Emergency Standby Engine: Diesel Engine, Make: Cummins, Model: N 855 P 235, Power Rating: 130 HP.~~
~~S-1472 Emergency Standby Engine: Diesel Engine, Make: Caterpillar, Model: 3406 B D1, Power Rating: 430 HP.~~
~~S-1486 Emergency Standby Engine: Diesel Engine, Make: Cummins, Model: HR1PS, Power Rating: 225 HP.~~
~~S-1474 Emergency Standby Engine: Diesel Engine, Make: Cummins, Model: NT 855 P335, Power Rating: 335 HP.~~

1. Hours of Operation: The emergency standby engines (S-1469, S-1477, S-1471, S-1472, S-1486, S-1474) shall only be operated to mitigate emergency conditions or for reliability related activities. Operation while mitigating emergency conditions is unlimited. Operation for reliability related activities is unlimited for S-1477, S-1471, and S-1486 and limited to 100 hours per any calendar year for S-1469, S-1472, and S-1474.

[Basis: Reg. 9-8-330; 9-8-331]

2. "Emergency Conditions" is defined as any of the following: [Basis: Reg. 9-8-231]

- a. Loss of regular natural gas supply.
- b. Failure of regular electric power supply.
- c. Flood mitigation.

- ~~d. Sewage overflow mitigation.~~
- ~~e. Fire.~~
- ~~f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.~~

- ~~3. "Reliability related activities" is defined as any of the following: [Basis: Reg. 9-8-232]~~
 - ~~a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~
 - ~~b. Operation of an emergency standby engine during maintenance of a primary motor.~~

- ~~4. The emergency standby engine shall be equipped with either: [Basis: Reg. 9-8-530]~~
 - ~~a. a non-resettable totalizing meter that measures and records the hours of operation for the engine.~~
 - ~~b. a non-resettable fuel usage meter.~~

- ~~5. Records: The following monthly records shall be maintained in a District approved log for at least 2 years and shall be made available for District inspection upon request: [Basis: Reg. 9-8-530, 1-441]~~
 - ~~a. Hours of operation (total).~~
 - ~~b. Hours of operation (emergency)~~
 - ~~c. For each emergency, the nature of the emergency condition.~~

Condition 18947

Administratively changed by Application 19419 (June 2009). Updated to remove parts superceded by standard conditions and parts redundant with District regulations.

- S-1475 Portable Emergency Standby Engine: Diesel Firewater PumpEngine, Make: Caterpillar, Model: 3408 DI, Power Rating: 503 HP.
- S-1476 Portable Emergency Standby Engine: Diesel Firewater PumpEngine, Make: Caterpillar, Model: 3408 DI, Power Rating: 503 HP.

Portable Equipment Requirements

- 1. ____ This mobile equipment shall operate at all time in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment. [Portable Eligibility Requirements]

- 2. ____ If the portable equipment remains at any fixed location in the Bay Area Air Basin for more than 12 months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. [Portable Eligibility Residence Time Requirement]

- 3. ____ Any violation of Condition #1 shall be reported to the Director of the Compliance and Enforcement Division no later than two business days after the incidence. In

addition, any loss of portability per condition #2 shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Compliance Verification]

Throughput Limitations

4. ___ The portable diesel engines shall not consume more than 1315 gallons of diesel fuel during any consecutive 12- month period. [Cumulative Increase]
5. ___ Deleted (basis: Superseded by Condition 22851, Part 1)~~The portable diesel engines shall not operate for more than the 50 hours during any consecutive 12-month period. [Cumulative Increase]~~

Regulatory Compliance Requirement

6. ___ Sources 1475 and 1476 shall only fire on diesel fuel containing less than 0.5% by weight sulfur. [Regulation 9-1; toxics]
7. ___ Deleted (basis: Particulate emissions limit Redundant with BAAQMD Regulation 6-1-301).
~~No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour that is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [Regulation 6]~~
8. ___ Deleted (basis: Public Nuisance prohibition redundant with Regulation 1-301)~~Operation of Sources 1475 and 1476 shall not emit emissions in sufficient quantities as to cause a public nuisance under Regulation 1-301. [Regulation 1-301]~~
9. ___ S-1475 and S-1476 shall not be operated within 1,000 feet of a school. To operate within 1,000 feet of a school, the Permit Holder must submit an application to the District so that proper notification of your intended operation can be made known to the affected public in advance of any usage of the equipment. [Regulation 2-1-412]

Recordkeeping Requirements

10. ___ The following records shall be kept in a District approved logbook and retained for a period of at least two years following the date of entry. The log shall be kept with the equipment and made available to District staff upon request. [Recordkeeping]
- a. ___ Weekly hours of operation and fuel usage for S-1475 and S-1476.
- b. ___ Hours of operation and fuel usage shall be totaled on a monthly basis.

Reporting Requirements

11. ___ The Permit Holder shall notify the District, in writing, at least 3 days in advance, of the new location in which they intend to operate. The notification shall include: [Reporting]
 - a. ___ Brief description of the general nature of the operation.
 - b. ___ The estimated duration of the operation at this site.
 - c. ___ The name and phone number of a contact person where the equipment will be operated.

12. ___ Within 30 days after the end of every calendar year, the applicant shall provide a year-end summary showing the following information: [Reporting]
 - a. ___ The location(s) at which the equipment was operated including the dates operated at each location.
 - b. ___ The total amount hours of operation and fuel used by S-1475 and S-1476 for the previous 12 months.

Condition 19197

COND# 19197 _____

Application #2298

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4.

S-1473 Pressurized Storage Tank; Storing: Ethyl Mercaptan Odorant, Capacity: 1000 gallons abated by A-14 Vapor Recovery System

1. S-1473 shall be abated by A-14 at all times that emissions from S-1473 are not controlled by the ethyl mercaptan delivery vessel's vapor balance system.
(basis: cumulative increase)

2. The total throughput of ethyl mercaptan odorant to S-1473 shall not exceed 3000 gallons during any rolling 12 consecutive month period.
(basis: cumulative increase)

3. Completed. (Final fugitive counts submitted March 10, 2010 with Application 21711).
~~Not more than 30 days after the Accelerated Permit to Operate is issued pursuant to permit application #2298, Permittee/Owner/ Operator shall ensure that the District's Permit Services Division is in receipt of the actual fugitive component count, by named type and service, installed/operated in conjunction with S-1473.~~
(basis: cumulative increase, offsets)

4. Completed. (Additional Offsets were provided in March 2010 via Application 2298. The project has been permitted for 0.018 tons POC emissions per year)If the actual fugitive component count, by named type and service, installed/operated in conjunction with S-1473 results in an emission quantification larger than that amount already charged to the plant cumulative increase for S-1473 project fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)
5. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each flange/connector's total organic compound emissions do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: cumulative increase, Reg. 8-18)
6. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each valve's total organic compound emissions do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: cumulative increase, Reg. 8-18)
7. In a District approved log, Permittee/Owner/ Operator shall record the amount of each organic liquid material throughput to S-1473 each month and for each rolling 12 consecutive month period, by material name. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.
(basis: cumulative increase)

Condition # 19199

Permit Application #2508

Permit Application 13803: Clarify conditions to allow owner/operator to bypass A-1106 SCR during shutdown of S-1106 (part H9)

Permit Application 17928: Administratively changed section F to remove S1100 Iso-Octene unit that was never built.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Delete Part D2 and E2.

Logistical Improvements

- A1.) Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided. Not more than 30 days after the start-up of Logistical Improvements for which an Authority to Construct was issued pursuant to permit application #2508, Permittee/Owner/Operator shall ensure that the District's Engineering Division is in receipt of the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the Logistical Improvements project. (basis: cumulative increase, offsets, toxics)
- A2.) Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided. If the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the Logistical Improvements project results in an emission quantification larger than that amount already charged to the plant cumulative increase for the Logistical Improvements project fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)
- A3.) Deleted. (The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-304.) Permittee/Owner/Operator shall ensure that each flange/connector installed is of a design that is District approved BACT compliant technology and that total organic compound emissions from each flange/connector do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- A4.) Deleted. (The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-302.) Permittee/Owner/Operator shall ensure that each valve installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each valve shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- A5.) Permittee/Owner/Operator shall ensure that each pump installed is of a design that is District approved BACT compliant technology. The Authority to Construct requirement to install BACT compliant pumps was satisfied. Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- A6.) Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Operating requirements for process sample

systems are specified in 40 CFR-60 Subpart VV; 60.482-5)

~~Permittee/Owner/Operator shall ensure that each process sample system installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: BACT, Reg. 8-18)~~

A7.) ~~Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Requirements for process drain emissions are specified Regulation 8, Rule 8.) Permittee/Owner/Operator shall ensure that each process drain installed is fitted and operated with a District approved "P" trap sealing system which prevents organic emissions from the process waste stream from escaping from the drain into the atmosphere. (basis: BACT)~~

A8.) ~~Deleted. (The Authority to Construct requirement to install BACT compliant pressure relief valves was satisfied.) Permittee/Owner/Operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% or more approved for this use in advance by the District. (basis: BACT, Reg. 8-28)~~

Two New Flare Gas Recovery
Compressors Each with a Maximum
Rated Capacity of 4 MMSCFD

B1.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided. ~~Not more than 30 days after the start-up of either of Two New Flare Gas Recovery Compressors for which an Authority to Construct was issued pursuant to permit application #2508, Permittee/Owner/Operator shall ensure that the District's Engineering Division is in receipt of the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the Logistical Improvements project. (basis: cumulative increase, offsets, toxics)~~

B2.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided. ~~If the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the Flare Gas Recovery Compressor project results in an emission quantification larger than that amount already charged to the plant cumulative increase for the Flare Gas Recovery Compressor project fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)~~

B3.) ~~Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall~~

~~ensure that each flange/connector installed is of a design that is District approved BACT compliant technology and that total organic compound emissions from each flange/connector do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18.
(basis: BACT, Reg. 8-18)~~

- B4.) ~~Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each valve installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each valve shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~
- B5.) Permittee/Owner/Operator shall ensure that ~~each pump installed is of a design that is District approved BACT compliant technology.~~ Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- B6.) ~~Deleted. ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process sample system installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains.
(basis: BACT, Reg. 8-18)~~
- B7.) ~~Deleted. ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process drain installed is fitted and operated with a District approved "P" trap sealing system which prevents organic emissions from the process waste stream from escaping from the drain into the atmosphere. (basis: BACT)~~
- B8.) ~~Deleted. ATC construction requirement completed. Redundant with Regulation 8-28. Permittee/Owner/Operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% or more approved for this use in advance by the District. (basis: BACT, Reg. 8-28)~~

S-802 Fluid Catalytic Cracking Unit (No. 4 Gas Plant) FCCU Naphtha Splitter

- C1.) ~~Deleted. Final fugitive count for the project submitted on 3/27/2003 and offsets were provided. Not more than 30 days after the start up of the FCCU Naphtha Splitter for which an Authority to Construct was issued pursuant to permit application #2508, Permittee/Owner/Operator shall ensure that the District's Engineering Division is in receipt of the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part~~

of the S-802 FCCU Naphtha Splitter project. (basis: cumulative increase, offsets, toxics)

- C2.) ~~Deleted.~~ Final fugitive count for the project submitted on 3/27/2003 and offsets were provided. If the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the S-802 FCCU Naphtha Splitter project results in an emission quantification larger than that amount already charged to the plant cumulative increase for the Naphtha Splitter project fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)
- C3.) ~~Deleted.~~ ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each flange/connector installed is of a design that is District approved BACT compliant technology and that total organic compound emissions from each flange/connector do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- C4.) ~~Deleted.~~ ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each valve installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each valve shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- C5.) Permittee/Owner/Operator shall ensure that ~~each pump installed is of a design that is District approved BACT compliant technology.~~ Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- C6.) ~~Deleted.~~ ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process sample system installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: BACT, Reg. 8-18)
- C7.) ~~Deleted.~~ ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process drain installed is fitted and operated with a District approved "P" trap sealing system which prevents organic emissions from the process waste stream from escaping from the drain into the atmosphere. (basis: BACT)

- C8.) ~~Deleted. ATC construction requirement completed. Redundant with Regulation 8-28. Permittee/Owner/Operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% or more approved for this use in advance by the District. (basis: BACT, Reg. 8-28)~~
- S-975 No. 4 Gas Plant Cooling Tower; Marley, 13-24A, with 4 Pumps, Sum Total Maximum Capacity: 4,140,000 Gallons/Hr
- D1.) Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-975 does not exceed 4,140,000 gallons per hour or 69,000 gallons per minute. (basis: cumulative increase, offsets, BACT)
- D2.) ~~Completed (Circulation Rate Source Test conducted June 2, 2003 within 60 days of startup as specified). Within 60 days after the date that the change of conditions authorization letter is issued by the District for S-975 pursuant to application #2508, Permittee/Owner/Operator shall measure the maximum cooling tower water recirculation rate at S-975 using a District approved methodology. Permittee/Owner/Operator shall notify the District in writing of the date that the maximum cooling tower water recirculation flow rate measurement is to occur at least 10 days prior to the scheduled test date. Permittee/Owner/Operator shall provide the test data and the test results to the District's Engineering Division within 30 days after the date of the testing. (basis: cumulative increase, offsets, BACT)~~
- D3.) The total dissolved solids content of the cooling tower water at S-975 shall not exceed 5000 milligrams per liter. (basis: cumulative increase, offsets)
- D4.) At least once each quarter, Permittee shall sample the cooling tower water at S-975 and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (basis: cumulative increase, offsets)
- D5.) The POC content of the cooling tower water at S-975 shall not exceed 100 ppm gasoline range organics (EPA Method 8015) and 100 ppm diesel range organics (EPA Method 8015) as measured at the cooling water return line or at the basin or at any other location at S-975, as determined by the results of EPA laboratory method 8015. (basis: BACT)
- D5A.) ~~deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions. (basis: start-up, BACT))~~
- D6.) Within 45 days after the date that the change of conditions authorization letter is issued by the District for S-975 pursuant to application #2508,

Permittee/Owner/Operator shall sample the cooling tower water at S-975 at the cooling water return line twice each WEEK and at the basin once each MONTH. After twenty six (26) weeks of District approved sampling and sample analysis data, Permittee/Owner/Operator shall sample the cooling tower water at S-975 at the cooling water return line ONCE each WEEK and Permittee/Owner/Operator shall ensure that each sample is subjected to analysis by EPA laboratory method 8015. The results of the laboratory analysis shall disclose the organic content of the S-975 cooling tower water. Permittee/Owner/Operator shall ensure that the results of the each laboratory analysis along with the laboratory report of each analysis shall be available on site for inspection by District staff not later than two weeks (14 calendar days) after the date on which the sample was taken from S-975. (basis: BACT)

- D7.) Permittee/Owner/Operator shall ensure that there is a District approved sample point at the cooling tower water return line for S-975 where cooling tower water in route to S-975 can be sampled. (basis: BACT)
- D8.) In a District approved log, Permittee/Owner/Operator shall record each date and location from which each sample of cooling tower was taken and the purpose of the sample. Permittee/Owner/Operator shall record the results of the laboratory analyses conducted pursuant to the requirements of these conditions along with copies of the laboratory results that disclose the date of the sampling, the location from which the sample was taken, the organic content of the cooling tower water determined by the laboratory method, the total dissolved solids content of the sample, the date of the analysis and name and address of the laboratory that conducted the analysis. The District approved log shall be retained on site for at least 5 years from last entry and be made available to the District staff upon request. (basis: cumulative increase, offsets, BACT)

S-982 No. 2 Hydrodesulfurization Unit; Cooling Tower; Capacity: 1,080,000 Gallons Per Hour

- E1.) Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-982 shall not exceed 1,080,000 gallons per hour or 18,000 gallons per minute. (basis: cumulative increase, offsets, BACT)
- E2.) Completed (Circulation Rate Test conducted June 2, 2003 Source Test conducted within 60 days of startup as specified). Within 60 days after the date that the change of conditions authorization letter is issued by the District for S-982 pursuant to application #2508, Permittee/Owner/Operator shall measure the maximum cooling tower water recirculation rate at S-982 using a District approved methodology. Permittee/Owner/Operator shall notify the District in writing of the date that the maximum cooling tower water recirculation flow rate measurement is to occur at least 10 days prior to the scheduled test date.

~~Permittee/Owner/Operator shall provide the test data and the test results to the District's Engineering Division within 30 days after the date of the testing. (basis: cumulative increase, offsets, BACT)~~

- E3.) The total dissolved solids content of the cooling tower water at S-982 shall not exceed 5000 milligrams per liter. (basis: cumulative increase, offsets)
- E4.) At least once each quarter, Permittee shall sample the cooling tower water at S-982 and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (basis: cumulative increase, offsets)
- E5.) The POC content of the cooling tower water at S-982 shall not exceed 100 ppm gasoline range organics (EPA Method 8015) and 100 ppm diesel range organics (EPA Method 8015) as measured at the cooling water return line or at the basin or at any other location at S-982, as determined by the results of EPA laboratory method 8015. (basis: BACT)
- E5A.) deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions. (basis: start-up, BACT))
- E6.) Within 45 days after the date that the change of conditions authorization letter is issued by the District for S-982 pursuant to application #2508, Permittee/Owner/Operator shall sample the cooling tower water at S-982 at the cooling water return line twice each WEEK and at the basin once each MONTH. After twenty six (26) weeks of District approved sampling and sample analysis data, Permittee/Owner/Operator shall sample the cooling tower water at S-982 at the cooling water return line ONCE each WEEK and Permittee/Owner/Operator shall ensure that each sample is subjected to analysis by EPA laboratory method 8015. The results of the laboratory analysis shall disclose the organic content of the S-982 cooling tower water. Permittee/Owner/Operator shall ensure that the results of the each laboratory analysis along with the laboratory report of each analysis shall be available on site for inspection by District staff not later than two weeks (14 calendar days) after the date on which the sample was taken from S-982. (basis: BACT)
- E7.) Permittee/Owner/Operator shall ensure that there is a District approved sample point at the cooling tower water return line for S-982 where cooling tower water in route to S-982 can be sampled. (basis: BACT)
- E8.) In a District approved log, Permittee/Owner/Operator shall record each date and location from which each sample of cooling tower was taken and the purpose of the sample. Permittee/Owner/Operator shall record the results of the laboratory analyses conducted pursuant to the requirements of these conditions along with copies of the laboratory results that disclose the date of the sampling, the location

from which the sample was taken, the organic content of the cooling tower water determined by the laboratory method, the total dissolved solids content of the sample, the date of the analysis and name and address of the laboratory that conducted the analysis. The District approved log shall be retained on site for at least 5 years from last entry and be made available to the District staff upon request. (basis: cumulative increase, offsets, BACT)

S-1100 Iso-Octene Unit, Maximum Production Capacity: 3000 BPD (1,095,000 BPY)

- F0.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that the total daily iso-octene production at S-1100 does not exceed 3000 barrels during each calendar day. (basis: Regulation 2.2-419)~~
- F1.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Not more than 30 days after the start-up of the Iso-Octene Unit for which an Authority to Construct was issued pursuant to permit application #2508, Permittee/Owner/Operator shall ensure that the District's Engineering Division is in receipt of the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the S-1100 Iso-Octene Unit project. (basis: cumulative increase, offsets, toxics)~~
- F2.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) If the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the S-1100 Iso-Octene Unit project results in an emission quantification larger than that amount already charged to the plant cumulative increase for the Iso-Octene project fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)~~
- F3.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each flange/connector installed is of a design that is District approved BACT compliant technology and that total organic compound emissions from each flange/connector do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~
- F4.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each valve installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each valve shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~

- F5.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each pump installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~
- F6.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each process sample system installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: BACT, Reg. 8-18)~~
- F7.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each process drain installed is fitted and operated with a District approved "P" trap sealing system which prevents organic emissions from the process waste stream from escaping from the drain into the atmosphere. (basis: BACT)~~
- F8.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) Permittee/Owner/Operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% or more approved for this use in advance by the District. (basis: BACT, Reg. 8-28)~~
- F9.) ~~Deleted. (S-1100 Iso-Octene Unit was not built) In a District approved log, in units of barrels or gallons, Permittee/Owner/Operator shall record the amount of iso-octene produced at S-1100 each calendar day, each month, and for each rolling 12 consecutive month period. The District approved log shall be retained on-site for at least 5 years from date of last entry and shall be made available to the District staff upon request. (basis: cumulative increase)~~

S-1105 No. 4 Hydrodesulfurization Unit; Maximum Capacity: 40,080 BPD (14,629,200 BPY)

- G0.) Permittee/Owner/Operator shall ensure that the total throughput of hydrocarbon material/feed material to S-1105 does not exceed 40,080 barrels during each calendar day. (basis: Regulation 2-2-419)
- G1.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided. ~~Not more than 30 days after the start up of the FCCU Naphtha Splitter for which an Authority to Construct was issued pursuant to permit application #2508, Permittee/Owner/Operator shall ensure that the District's Engineering Division is in receipt of the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the S-1105 No. 4 Hydrodesulfurization Unit. (basis: cumulative increase, offsets, toxics)~~

- G2.) ~~Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided. If the actual fugitive component count, by named type and service, installed pursuant to Authority to Construct #2508 as part of the S-1105 No. 4 Hydrodesulfurization Unit project results in an emission quantification larger than that amount already charged to the plant cumulative increase for the No. 4 Hydrodesulfurization fugitive emissions, the District will adjust the cumulative increase upward to reflect the larger emission quantification and Permittee/Owner/Operator shall promptly provide to the District, District approved emission offsets of the type and amount specified by the District to be due. (basis: offsets)~~
- G3.) ~~Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each flange/connector installed is of a design that is District approved BACT compliant technology and that total organic compound emissions from each flange/connector do not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~
- G4.) ~~Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18. Permittee/Owner/Operator shall ensure that each valve installed is of a design that is District approved BACT compliant technology. Total organic compound emissions from each valve shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)~~
- G5.) Permittee/Owner/Operator shall ensure that ~~each pump installed is of a design that is District approved BACT compliant technology.~~ Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18.
(basis: BACT, Reg. 8-18)
- G6.) ~~Deleted. ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process sample system installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: BACT, Reg. 8-18)~~
- G7.) ~~Deleted. ATC construction requirement completed. Permittee/Owner/Operator shall ensure that each process drain installed is fitted and operated with a District approved "P" trap sealing system which prevents organic emissions from the process waste stream from escaping from the drain into the atmosphere. (basis: BACT)~~

- G8.) ~~Deleted. ATC construction requirement completed. Redundant with Regulation 8-28. Permittee/Owner/Operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% or more approved for this use in advance by the District. (basis: BACT, Reg. 8-28)~~
- G9.) In a District approved log, Permittee/Owner/Operator shall record the amount of feed material throughput to S-1105 each day, each month, and for each 12 consecutive month period. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.
(basis: cumulative increase)
- S-1106 Furnace; FU72, No. 4 Hydrodesulfurization Reactor Feed Heater, Natural Gas Fired, Maximum Firing Rate (HHV): 30 MMBtu/hr abated by A-1106 Selective Catalytic Reduction System
- H0.) Permittee/Owner/Operator shall ensure that the maximum fuel firing rate at S-1106 does not exceed 30 MMBtu/hr averaged over each calendar day by dividing the fuel use rate during each day by 24. (basis: cumulative increase)
- H1.) Permittee/Owner/Operator shall ensure that no fuel other than natural gas is fired at S-1106. (basis: cumulative increase, toxics)
- H2.) Permittee/Owner/Operator shall ensure that S-1106 is not be operated unless it is equipped with a District approved fuel flow meter that measures the volume of fuel throughput to S-1106 in units of standard cubic feet.
(basis: cumulative increase)
- H3.) Permittee/Owner/Operator shall ensure that the total fuel use at S-1106 does not exceed 225.257 million standard cubic feet of natural gas during any rolling 12 consecutive month period.
(basis: cumulative increase, toxics, offsets)
- H4.) Permittee/Owner/Operator shall ensure that NO_x emissions from S-1106 do not exceed 10 ppmv, dry, at 3% oxygen, based on a three hour average, after abatement at A-1106. (basis: BACT, cumulative increase, offsets)
- H5.) Permittee/Owner/Operator shall ensure that CO emissions from S-1106 do not exceed 50 ppmv, dry, at 3% oxygen, based on a three hour average.
(basis: BACT, cumulative increase, offsets)
- H6.) Permittee/Owner/Operator shall ensure that POC emissions from S-1106 do not exceed 0.619 ton per rolling consecutive 12 month period (or the equivalent

emission rate prorated to the time period during which emissions are measured/calculated).
(basis: cumulative increase, offsets)

- H7.) Permittee/Owner/Operator shall ensure that PM-10 emissions from S-1106 do not exceed 0.856 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).
(basis: cumulative increase, offsets)
- H8.) Permittee/Owner/Operator shall ensure that SO₂ emissions from S-1106 shall not exceed 0.068 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).
(basis: cumulative increase, BACT, offsets)
- H9.) Permittee/Owner/Operator shall ensure that S-1106 is abated by A-1106 at all times that a fuel is fired at S-1106 except for not more than 144 hours during any rolling 12 consecutive month period and during shutdown as defined by Regulation 9-10-218. The 144 hours is for start-up of S-1106. At all times other than the 144 hours per 12 consecutive month period and during shutdown as defined by Regulation 9-10-218, while a fuel is fired at S-1106, S-1106 shall be abated by A-1106 and there shall be ammonia injection at A-1106.
(basis: BACT)
- H10.) Permittee/Owner/Operator shall ensure that ammonia slip from A-1106 does not exceed 20 ppmv, dry, at 3% oxygen averaged over any 3 hour period. (basis: toxics)
- H11.) Notwithstanding any provision of District regulations allowing for the malfunction of or lack of operation of the CEM, Permittee/Owner/Operator shall not operate S-1106 without a District approved continuous emissions monitoring device that continuously measures and continuously records the concentration of nitrogen oxides, in ppmv units, in the combustion exhaust from S-1106 corrected to 3 ppmv oxygen, dry; and the device shall continuously measure and continuously record the oxygen concentration in the combustion exhaust from S-1106. (basis: cumulative increase, BACT, offsets)
- H12.) Once each calendar year Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures CO emissions from S-1106. The first CO source test for S-1106 shall be conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of CO from S-1106 and the amount of oxygen in the S-1106 exhaust. Because of this condition S-1106 does not need a CEM for CO.

Permittee/Owner/Operator shall ensure that within 30 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and ~~facilityplant # B275814628~~ are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division. (basis: start-up, offsets, BACT, cumulative increase, toxics)

- H13. Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures emissions from S-1106 and that the source test for S-1106 is conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of NO_x, CO, POC, SO₂, ammonia, and PM-10 from S-1106 while it is operated at a fuel feed rate of 22857 SCF of natural gas per hour or more. For NO_x, CO, and ammonia, the measurement shall be based on a three hour average. If the fuel firing rate of S-1106 during the testing is less than 22857 SCF natural gas per hour, then Permittee/Owner/Operator shall conduct a subsequent District approved source test at S-1106 every twelve months thereafter, until a District approved source test is completed while S-1106 is fired at 22857 SCF of natural gas per hour or more during the entire test period.

Permittee/Owner/Operator shall ensure that within 30 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and ~~facilityplant # B275814628~~ are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division.
(basis: start-up, offsets, BACT, cumulative increase, toxics)

- H14.) In a District approved log, Permittee/Owner/Operator shall record, for S-1106, the amount of each fuel fired in units of standard cubic feet, the concentration of nitrogen oxides in the exhaust from S-1106 in ppmv corrected to 3% oxygen, the oxygen content in the combustion exhaust from S-1106, each time period during which S-1106 is operated without abatement by A-1106 and each time period during which S-1106 is operated without ammonia injection at A-1106. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request. (basis: cumulative increase, offsets)
- H15.) If, based on District approved source test results, emissions from S-1106 exceed permitted and/or offset emission levels, Permittee/Owner/Operator shall provide additional District approved emission reduction credits to the District in the amount and of the type(s) determined by the District to be due, to offset the emissions that are in excess of permitted and/or offset emission levels. (basis: offsets)

Condition # 19528

Modified by App 18739 (Nov 2008) Removal of S924 from Part 6

Administratively Modified by Application 19326 (Feb2009), Removed Part 2 and 2A

Administratively changed by Application 19419 (June 2009). Updated to remove parts 7 and 7A redundant with District regulations.

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 18261 Title V Renewal. Added Parts 20 and 20A for S-1411 SAP CAM.

Administratively Changed by Application 21711 (May 2010). Deleted Parts 8/8A. Deleted S1416 from Part 10/10A. Renumbered Part 11C.

1. Deleted. (Redundant with Title V Standard Conditions I.J.1 and I.J.2.) ~~Permittee/Owner/Operator shall ensure that the none of the firm limits in Table II A or Table II C is exceeded. Firm limits and grandfathered limits are the two kinds of limits possible in Table II A and Table II C. Each exceedance of a firm limit set forth in Table II A or Table II C is a violation of condition #19528, part 1. The throughput limits in Table II A and Table II C that are identified as grandfathered limits are based upon District records at the time of the MFR permit issuance. Permittee/Owner/Operator shall report each exceedance of each, any, and all the limits in Table II A and Table II C following the procedures in Section I.F of the facilities' Title V permit. For grandfathered limits, 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 a grandfathered 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: Regulation 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)~~

- 2) Deleted. [The source test requirements in Regulation 8-44-601 are more stringent.] ~~For each of S106, S107, S108, and S114, Permittee/Owner/Operator shall ensure that not less frequently than once every 36 consecutive months a District approved source test is conducted for each source measuring its POC emission rate in units of pounds per thousand barrels loaded. Permittee/Owner/Operator shall ensure that the testing is conducted during crude~~

~~oil transfer at the source where the source testing is being conducted. Permittee/Owner/Operator shall ensure that the first District approved source test for each source shall be completed before July 31, 2005. (basis: Regulation 2-1-403; Regulation 8-43, Regulation 2-6-503)~~

- 2A) ~~Deleted. [Part 2 source test requirements replaced by Regulation 8-44-601.] Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 2, two identical copies of the results of the source test long with supporting documentation, each referencing the subject source, condition 19528 part 2 and part 2A, and plant #12758 are received by the District and that both copies are addressed to the District's Engineering Division. (basis: Regulation 2-1-403; Regulation 8-43, Regulation 2-6-503)~~
- 3) ~~Deleted. (Source Test not required. S-901 now has a CO CEM.) For S-901, Permittee/Owner/Operator shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for S-901 measuring its CO emission rate, using a District approved source test method and conducted in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each source shall be completed before July 31, 2004. (basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)~~
- 3A) ~~Deleted. (Source Test not required. S-901 now has a CO CEM.) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 3, two identical copies of the results of the source test along with supporting documentation, each referencing S901, condition 19528 part 3 and part 3A, and facility plant # B12758 are received by the District and that both copies are addressed to the District's Engineering Division. (basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)~~
- 4) For each of S-909, S-912, S-913, S-915, S-916, S-919, S-920, and S-921, Permittee/Owner/Operator shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for each source measuring its NOx and CO emission rate using a District approved source test method and that each test is conducted in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each of S909, S912, S913, S915, S916, S919, S920, and S921 is completed before July 31, 2004.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 4A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 4, two identical copies of the results of the source test along with

supporting documentation, each referencing the subject source number, condition 19528 part 4 and part 4A, and facilityplant # B12758 are received by the District and that both copies are addressed to the District's Engineering Division.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)

- 5) ~~Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)~~For each of ~~S 922, S 926, S 934, S 935, S 951, and S 972,~~ Permittee/Owner/Operator shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for each source measuring its NOx and CO emission rate using a District approved source test method and that it is conducted in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each source shall be completed before July 31, 2004.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 5A) ~~Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)~~Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 5, two identical copies of the results of the source test along with supporting documentation, each referencing the source number, condition 19528 part 5 and part 5A, and facilityplant # B12758 are received by the District and that both copies are addressed to the District's Engineering Division.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 6) ~~Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)~~For each of ~~S 917, S 924, S 928, S 929, S 930, S 931, S 932, and S 933,~~ Permittee/Owner/Operator shall ensure that not less frequently than once each calendar year a District approved source test is conducted for each source measuring its NOx and CO emission rate using a District approved source test method and that it is conducted in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each source shall be completed before November 31, 2004.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 6A) ~~Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)~~Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 6, two identical copies of the results of the source test along with supporting documentation, each referencing the source number, condition 19528 part 6 and part 6A, and facilityplant # B12758 are received by the District and that both copies are addressed to the District's Engineering Division.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)

- 7) ~~Deleted. (Monitoring requirements for S-952, S-953, S-954, S-955, S-956, S-957, and S-960 are required quarterly per Regulation 9-8-503) For each of S-952, S-953, S-954, S-955, S-956, S-957, S-960, and S-961, Permittee/Owner/Operator shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for each source measuring its NO_x and CO emission rate using a District approved source test method and that it is conducted in compliance with the District's Manual of Procedures per Regulation 9-10-601 and 602. Permittee/Owner/Operator shall ensure that the first District approved source for each source shall be completed before July 31, 2005. (basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)~~
- 7A) ~~Deleted. (Monitoring requirements for S-952, S-953, S-954, S-955, S-956, S-957, and S-960 are required quarterly per Regulation 9-8-503) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 7, two identical copies of the results of the source test along with supporting documentation, each referencing the subject source number, condition 19528 part 7 and part 7A, and plant #12758 are received by the District and that both copies are addressed to the District's Engineering Division. (basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)~~
- 8) ~~Deleted. (Monitoring requirements for S-955, S-956, S-957, S-958, S-959, and S-960 are required quarterly per Regulation 9-8-503) For each of S955, S956, S957, S958, S959, and S960, Permittee/Owner/Operator shall ensure that not less frequently than once every other calendar year a District approved source test is conducted for each source measuring its NO_x and CO emission rate using a District approved source test method and in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each source shall be completed before July 31, 2005. (basis: Regulation 2-1-403; Regulation 9-8, Regulation 2-6-503)~~
- 8A) ~~Deleted. (Monitoring requirements for S-955, S-956, S-957, S-958, S-959, and S-960 are required quarterly per Regulation 9-8-503) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 8, two identical copies of the results of the source test along with supporting documentation, each referencing the subject source number, condition 19528 part 8 and part 8A, and plant #1462812758 are received by the District and that both copies are addressed to the District's Engineering Division. (basis: Regulation 2-1-403; Regulation 9-8, Regulation 2-6-503)~~
- 9) For S1401, Permittee/Owner/Operator shall ensure that not less frequently than once each calendar year a District approved source test is conducted for S-1401 measuring its SO₃ and H₂S₀₄ emission rate per dry standard foot of exhaust

volume, expressed as 100% H₂S₀₄. This monitoring requirement shall become effective April 1, 2004.

(basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503)

- 9A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 9, two identical copies of the results of the source test and supporting documentation, each referencing S-1401, condition 19528 part 9 and part 9A, and plant #1275814628 are received by the District and that both copies are addressed to the District's Engineering Division.

(basis: Regulation 2-1-403; Regulation 6-1-330, Regulation 2-6-503)

- 10) For ~~each of S-1415 and, S-1416, and S-1417~~, Permittee/Owner/Operator shall ensure that not less frequently than once every 60 months, ~~with the first District approved source test completion date for each of occurring before October 31, 2006, that~~ a District approved source test is conducted ~~for each of S-1415 and, S-1416, and S-1417~~, in compliance with the District's Manual of Procedures, measuring ~~the each source's~~ POC emission rate and carbon concentration in ppm, dry. (basis: Regulation 8-2; Regulation 2-1-403, Regulation 2-6-503)

- 10A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 10, two identical copies of the results of the source test along with supporting documentation, each referencing the subject source number, condition 19528 part 10 and part 10A, and plant #1275814628 are received by the District and that both copies are addressed to the District's Engineering Division .

(basis: Regulation 2-1-403; Regulation 8-2, Regulation 2-6-503)

Conditions for monitoring smoking flares_:

- ~~11. Permittee/Owner/Operator shall ensure that each of S-854, S-992, and S-1013 is used to burn only process upset gasses and/or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.
(basis: 40 CFR 60.104; Regulation 2-1-403, Regulation 2-6-503) Deleted. (See Discussion in Rev. 3 Statement of Basis.)~~

- ~~11A) Deleted. (See Discussion in Rev. 3 Statement of Basis.) Effective June 1, 2004, in a District approved log, for each of S-854, S-943, S-944, S-945, S-992, S-1012, and S-1013, Permittee/Owner/Operator shall record each and every flaring event. This log shall be made available to the District upon request, and it shall be kept on site for a period of not less than 5 years from the date~~

~~of the last entry made in the log.~~
~~(basis: 40 CFR 60.104; Regulation 2-1-403, Regulation 2-~~
~~6-503)~~

11B) 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 ~~11A-11C~~ of this condition.
(basis: Regulation 2-6-409.2)

11C) 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 11D. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (basis: Regulation 6-1-301, 2-1-403)

11D) The owner/operator shall comply with one of the following requirements if visual inspection is used:

If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.

If the procedure of 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.
(basis: Regulation 2-6-403)

- 11E) The owner/operator shall keep records of all flaring events, as defined in Part 11B. 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 11C of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 11C of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)

Sources:

S854, S992, S1013

- 12) This condition applies to each organic liquid storage tank that is exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to Permittee/Owner/Operator's assertion or belief that the tank's contents comply with 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 Permittee/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 Permittee/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 Permittee/Owner/Operator may use Table 1 to determine the material's true vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), Permittee/Owner/Operator shall report non-compliance in accordance with Standard Condition I.F and shall submit a complete permit application to the District to obtain a new Permit to Operate for the tank not more than 180 days from discovery that the true vapor pressure of the material in the tank is greater than 25.8 mm Hg (0.5 psia). This monitoring requirement shall take effect on April 1, 2004. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)
- 12.1) ~~Deleted (basis: Initial testing/data collection completed). This condition applies to each organic liquid storage tank that is exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to Permittee/Owner/Operator's assertion or belief that the tank's contents comply with 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). The owner/operator must verify that the true vapor pressure of the initial contents being stored is less than or equal to 25.88 mm Hg (0.5 psia) at storage temperature. The owner/operator shall use Lab Method 28 from Volume III of the BAAQMD MOP, 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 the material's true vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), Owner/Operator shall report non-compliance in accordance with Standard Condition I.F and shall submit a complete permit application to the District to obtain a new Permit to Operate for the tank not more than 180 days from discovery that the true vapor pressure of the material in the tank is greater than 25.8 mm Hg (0.5 psia). Monitoring shall be completed by June 30, 2004. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)~~

- 12A) When laboratory testing is conducted to determine the true vapor pressure of the material stored in a tank subject to condition 19528 part 12 and 12.1, in a District-approved log, Permittee/Owner/Operator shall record the results of the testing, the laboratory method used, along with the identity of tank by District assigned source number where the material was sampled/stored. Permittee shall retain the log for not less than five years from the date of the recording in the log. Permittee/Owner/Operator shall ensure that the log is made available to District staff upon request. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)
- 13.) With a frequency not less than once per month, Permittee/Owner/Operator shall visually inspect the outlet at A-4 while it is abating any of the catalyst hoppers S-97, S-98, and/or S-99 and Permittee/Owner/Operator shall note whether any visible emissions are present at the A-4 exhaust point venting to atmosphere. If there are visible emissions, Permittee/Owner/Operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved log, Permittee/Owner/Operator shall record whether there are visible emissions or not and, when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each month that S-97, S-98, and S-99 is not in operation for the entire month, Permittee/Owner/Operator need not complete this inspection for S-97, S-98, and S-99. (basis: Regulation 2-1-403, Regulation 2-6-503)
- 13A.) The owner/operator of S97, S98, S99 abated by A-4 Cyclone and Baghouse shall inspect the A-4 baghouse annually to ensure it is in good operating condition. The annual inspection and any filter bag changes shall be recorded in a District approved log. The logs in part 13 and 13A shall be kept for a minimum of five years and shall be made available to District personnel upon request. (basis: Regulation 2-1-403, Regulation 2-6-503)
- 14.) With a frequency not less than once per day, Permittee/Owner/Operator shall visually inspect S-810, S-821 and Permittee/Owner/Operator shall note whether any visible emissions are present at S-810, S-821. If there are visible emissions, Permittee/Owner/Operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved

log, Permittee/Owner/Operator shall record whether there are visible emissions or not and, when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each month that S-821 is not in operation for the entire month and when there is no petroleum coke stored at S-821, Permittee/Owner/Operator need not complete this inspection for S-821. This monitoring requirement shall take effect on April 1, 2004.
(basis: Regulation 2-1-403, Regulation 2-6-503)

14a. Effective June 1, 2004, Permittee/Owner/Operator shall conduct a daily visual inspection at A-9 Coke Silo Precipitator for any emission that is greater than or equal to 20% opacity for more than 3 minutes in any hour. (basis: Regulation 6-1-302)

15.) Deleted. A-1420 was removed from service in 2006 when S-1405 became abated by S-1411 or S-1401.)

16. Deleted.; (Moved to Title V Standard Condition I.J.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 start up 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 after the unscheduled startup/shutdown or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [basis: Regulation 2-1-403]~~

17. Deleted. (63 Subpart UUU requirements have been completed.)~~By April 11, 2004, the Permittee/Owner/Operator shall submit a complete permit application to the District 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)~~

18. Deleted. (63 Subpart UUU requirements have been completed.)~~By April 11, 2005, the Permittee/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))~~

19. The Owner/Operator of S963 shall conduct an annual District-approved source test to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 42 ppmv, dry, at 15% O2, fired on natural gas. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit

Services Division no less than 45 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 9-9-301.1]

- 20 For S1411, Permittee/Owner/Operator shall ensure that not less frequently than once each calendar year a District approved source test is conducted for S-1411 measuring its SO3 and H2S04 emission rate per dry standard foot of exhaust volume, expressed as 100% H2S04.
(basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)
- 20A Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 20, two identical copies of the results of the source test and supporting documentation, each referencing S-1411, condition 19528 part 20 and part 20A, and plant #14628 are received by the District and that both copies are addressed to the District's Engineering Division.
(basis: Regulation 2-1-403; Regulation 6-1-330, Regulation 2-6-503, 40 CFR 64)

Condition #19762

Permit Application #4579

- S-775 Internal Floating Roof Tank (TK A-849);
Capacity:109,000 BBL, Storing: Gasoline
Application 14580, modified by Application 2720, modified by Application 4579
Administratively Changed via Application 17537, July 2008
- A1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-775 does not exceed 11,336,000 barrels during any 12 consecutive month period.
(basis: cumulative increase, toxics, offsets)
- A2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-775 is always less than or equal to 11 psia. (basis: cumulative increase, toxics, offsets)
- A3) Deleted. Compliance with the tank design criteria was verified when S-775 was granted a Permit to Operate in 2001 via Application 4579.
~~Permittee/Owner/Operator shall ensure that S-775 is of welded construction, that its primary seal is a District approved liquid mounted mechanical shoe seal, that its secondary seal is a District approved zero gap rim mounted seal, that all roof penetrations at S-775 are gasketed, that each adjustable roof leg at S-775 is fitted~~

~~with a District approved vapor seal boot, that each slotted guide pole is equipped with a District approved float and wiper seal and pole sleeve.
(basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10, Subpart Kb, offsets)~~

A4) ~~Deleted. Final fitting count was verified for S-775 in a 2008 audit for Application 4579. Permittee/Owner/Operator shall ensure that S-775 is equipped with ONLY the following fittings, in the number indicated in parenthesis:~~

- ~~-access hatch (1)~~
- ~~-radar level detector at access hatch (1)~~
- ~~-automatic gauge float well (1)~~
- ~~-roof drain (1)~~
- ~~-adjustable roof leg (84)~~
- ~~-slotted guide pole sample well (1)~~
- ~~-vacuum breaker (2)~~

~~(basis: cumulative increase, toxics, offsets)~~

A5) VOC/petroleum material other than Gasoline may be throughput to or stored at S-775, if in doing so, Permittee/Owner/Operator complies with each and all of the following:

- a) the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.
- b) the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.
- c) the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-775 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.

(basis: cumulative increase, toxics, offset)

A6) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-775, in gallon or barrel units, by name (e.g., naphtha, Jet A, gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

S-1484 Oil Water Separator; Pressure Vessel;
Volume: 1350 Gallons, Capacity: 286 BPH
abated by A-14 Vapor Recovery
Application 4579, August 2002.

- B1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1484 does not exceed 2,505,360 barrels during any 12 consecutive month period.
(basis: cumulative increase, toxics, offsets)
- B2) ~~Permittee/Owner/Operator shall ensure that S-1484 is of welded construction and that S-1484 is vapor tight. Vapor tight has the same meaning as set forth in Regulation 8, Rule 8.~~
Deleted. Compliance with the vessel vapor tight design criteria was verified when S-1484 was granted a Permit to Operate in 2002 via Application 4579.
~~(basis: Regulation 8-8, cumulative increase, toxics, offsets)~~
- B3) Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid breakdown at No. 1 Gas Plant vapor recovery compressor(s), Permittee/Owner/Operator shall ensure that S-1484 is abated by A-14 at all times that S-1484 is operated and at all times that S-1484 contains VOC/petroleum materials.
(basis: Regulation 8-8, cumulative increase, toxics, offsets)
- B4) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of liquid material throughput to S-1484, in gallon or barrel units, for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.
(basis: cumulative increase, toxics, offsets)

Condition 20099

Application 6201 (November 2002), Condition updated after Start-up (December 2004).

S-532 Oil Water Separator; Tank 532,
modified to operate as an Oil Water
Separator; Volume: 630K Gallons,
Capacity: 286 BPH abated by
A-14 Vapor Recovery System

Administratively Changed via Application 17537, July 2008

Application 17928/~~17428~~17458 (2008) Remove Demolished and OOS Sources

1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-532 does not exceed 2,505,360 barrels during any 12 consecutive month period. (basis: cumulative increase, toxics, BACT, offsets)

2) Deleted. Compliance with the tank vapor tight design criteria was verified when S-532 was granted a Permit to Operate in 2004 via Application 6201.

~~Permittee/Owner/Operator shall ensure that S-532 is of welded construction and that S-532 is vapor tight. Vapor tight has the same meaning as set forth in Regulation 8, Rule 8. (basis: Regulation 8-8, cumulative increase, toxics, offsets, BACT)~~

3) Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid breakdown at No. 1 Gas Plant vapor recovery compressor(s), Permittee/ Owner/Operator shall ensure that S-532 (excluding the pressure vacuum relief valve vent), including the pressure vent at S-532, is abated by A-14 at all times that S-532 is operated and at all times that S-532 contains VOC/petroleum materials. basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)

4) Permittee/Owner/Operator shall ensure that VOC/POC emissions from S-532 that are ducted to A-14 are abated with a destruction efficiency of at least 98 percent, by weight, as measured across the combustion device(s) burning (the vapors from the) 40 Pound Fuel Gas system. (basis: BACT)

5) Not more than 120 days after the start-up of S-532 pursuant to Authority to Construct #6201, Permittee/Owner/Operator shall conduct a District approved source test at each of the following sources:

S-908 No. 8 Furnace @ No. 3 Crude Unit
S-909 No. 9 Furnace @ No. 1 Feed Prep.
S-912 No. 12 Furnace @ No. 1 Feed Prep.
S-913 No. 13 Furnace @ No. 2 Feed Prep.

to measure for each source each of the following:

the fuel feed rate in pounds/hr
the POC emission rate at the stack
the flue gas flow rate in SCFM at the stack
the oxygen content of the stack flue gas
the destruction efficiency of POC/VOC as measured across the Furnace/combustion device

Permittee/Owner/Operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 35 days following the date of the source test.

5A) ~~Deleted. (S-991 was taken out of service in 1993). Not more than 5 days after S-991 undergoes its first start-up subsequent to the first maintenance turnaround at the FCCU after December 31, 2002, Permittee/Owner/Operator shall ensure that a District approved source test is conducted at S-991 FCCU Preheat Furnace to measure each of the following:~~

- ~~the fuel feed rate in pounds/hr~~
- ~~the POC emission rate at the stack~~
- ~~the flue gas flow rate in SCFM at the stack~~
- ~~the oxygen content of the stack flue gas~~
- ~~the destruction efficiency of POC/VOC as measured across the Furnace/combustion device~~

~~Permittee/Owner/Operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 35 days following the date of the source test. (basis: BACT)~~

6) To determine compliance with part 4, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal.

- S-908 No. 8 Furnace @ No. 3 Crude Unit
- S-909 No. 9 Furnace @ No. 1 Feed Prep.
- S-912 No. 12 Furnace @ No. 1 Feed Prep.
- S-913 No. 13 Furnace @ No. 2 Feed Prep.
- ~~S-991 FCCU Preheat Furnace~~

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 35 days of the source test. (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

7) During periods of preventative maintenance on A-14 Vapor Recovery System not to exceed 36 hours per rolling consecutive 12 month period, Permittee/Owner/Operator shall ensure that there is no liquid flow into S-532 and that under no circumstances shall

the preventative maintenance begin prior to 6:00 PM PST. During the preventative maintenance on A-14 Vapor Recovery System S-532 does not need to be abated by A-14. (basis: BACT)

8) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of liquid material throughput to S-532, in gallon or barrel units, for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

9) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the time, date, duration, and reason for each instance during which S-532 is not abated by A-14. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

~~10) Upon start-up of S-532 pursuant to Authority to Construct #6201, Permittee/Owner/Operator shall ensure that S-46 Fixed Roof Tank, Capacity: 252K gal is not operated and is permanently taken out of service, additionally the Permit to Operate for S-46 shall become null and void. (basis: offsets)~~ Deleted (S-46 TK046 has been taken out of service)

Condition 20520

COND# 20520

S-1485 Internal Floating Roof Tank; Tank A-870, Capacity: 130,000 BBL, Storing: Gasoline Blending Components

Administratively Changed via Application 17537, July 2008

1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1485 does not exceed 11,000,000 barrels during every 12 consecutive month period.

(basis: cumulative increase, toxics, offsets)

2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1485 is always less than or equal to 11 psia.

(basis: cumulative increase, toxics, offsets)

3) ~~Compliance with the tank design criteria was verified when S-1485 was granted a Permit to Operate in 2004 via Application 6674. Permittee/Owner/Operator shall ensure that S-1485 is of welded construction, that its primary seal is a District approved liquid mounted mechanical shoe seal, that its secondary seal is a District approved zero gap rim mounted seal, that all roof penetrations at S-1485 are gasketed, that each adjustable roof leg at S-1485 is fitted with a District approved vapor seal boot, that each slotted guide pole is equipped with a District approved float and wiper seal and pole sleeve.
(basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb, offsets)~~

4) ~~Final fitting count was provided and offsets were adjusted in December 2004 via Application 6674. During permitting of S-1485, Permittee/Owner/Operator disclosed to the District that S-1485 will be equipped with the following fittings, in the number indicated in parenthesis:
access hatch (1)
gauge hatch sample well (1)
vacuum breaker (1)
slotted guide pole sample well (1)
ladder well (1)
automatic gauge float well (1)
adjustable roof leg (52)
SAAB radar level gauge or equivalent (1)~~

~~Not more than 30 days after Permittee/Owner/Operator first places any petroleum material into S-1485, Permittee/Owner/Operator shall ensure that the District's Permit Services Division is in receipt of a written notification disclosing by type, number, and name, each and all fittings situated at S-1485.~~

~~If, after construction of S-1485, the District determines that the fittings situated at S-1485 result in a POC emission rate that is excess of the amount of POC emissions offset by Permittee/Owner/Operator then, Permittee/Owner/Operator shall surrender to the District, District approved emission reduction credits of the type and amount specified by the District. Permittee/Owner/Operator shall ensure that the District is in receipt of the District approved emission credits not more than 30 days after receipt of the District's written request for the offsets.~~

~~Conversely, if the District's quantification of permitted emissions for S-1485 is less than the amount of District approved emission reduction credits offset by Permittee/Owner/Operator, then the District shall refund to Tesoro the amount of credits the District determines to be due to Tesoro based on the District's quantification of permitted and offset emissions for S-1485.
(basis: cumulative increase, toxics, offsets)~~

5) Permittee/Owner/Operator shall ensure that no VOC/petroleum material other than heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformate, heavy catalytic reformed naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline, and/or

FCC Merox product is throughput to or stored at S-1485, unless Permittee/Owner/Operator complies with each and all of the following:

a) the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.

b) the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.

c) the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1485 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.

(basis: cumulative increase, toxics, offset)

6) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1485, in gallon or barrel units, by the material's MSDS name true name as disclosed on the material's MSDS (e.g., cat cracked heavy naphtha, medium reformat fractionator bottoms, stabilized reformat, FCC gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.

(basis: cumulative increase, toxics, offsets)

Condition 20573

~~S-56 On-Shore Fire Water Pump: Diesel Engine, Make: Caterpillar, Model: 3412DIT, Rated Horsepower: 660 HP~~

~~1. Deleted (basis: Redundant with ATCM Condition 23811)~~

~~Hours of Operation: Permittee/Owner/Operator shall ensure that S-56 is operated exclusively to mitigate emergency conditions or for reliability related activities. For S-56, Permittee/Owner/Operator shall ensure that operation for reliability related activities does not exceed 100 hours in each calendar year. Operation while mitigating emergency conditions is unlimited.~~

~~{Basis: Toxic Risk Screen}~~

~~2. Deleted (basis: Redundant with 9-8-231) "Emergency Conditions" is defined as any of the following:~~

~~a. Impending threat of fire~~

~~b. Fire~~

~~{Basis: Reg. 9-8-231}~~

~~3. Deleted (basis: Redundant with 9-8-232) "Reliability related activities" is defined as any of the following:~~

~~a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~

~~b. Operation of an emergency standby engine during maintenance of a primary motor.~~

~~[Basis: Reg. 9-8-232]~~

~~4. Deleted (basis: Redundant with 9-8-530 and ATCM Condition 23811)~~

~~Permittee/Owner/Operator shall ensure that S-56 is equipped with:~~

- ~~a. a non-resettable totalizing meter that measures and records the hours of operation for the engine.~~

~~[Basis: Reg. 9-8-530]~~

~~5. Deleted (basis: Parts 5a-5 redundant with 9-8-530 and ATCM Condition 2381. Part 5d redundant with ATCM Condition 23811) Records: Permittee/Owner/Operator shall ensure that for S-56, the following monthly records are maintained in a District-approved log and retained on-site for at least 5 years from date of last entry, and that these records are made available for District inspection upon request:~~

- ~~a. Hours of operation (total).~~
- ~~b. Hours of operation (emergency).~~
- ~~c. For each emergency, the nature of the emergency condition.~~
- ~~d. Fuel usage each month by fuel type.~~

~~Basis: Reg. 9-8-530, Reg. 1-441]~~

~~**S-57 Off-Shore/Wharf Fire-Water Pump: Diesel Engine, Make: Caterpillar, Model: 3412DIT, Rated Horsepower: 700 HP**~~

~~1. Deleted (basis: Redundant with ATCM Condition 23811) Hours of Operation:~~

~~Permittee/Owner/Operator shall ensure that S-57 is operated exclusively to mitigate emergency conditions or for reliability-related activities. For S-57, Permittee/Owner/Operator shall ensure that operation for reliability-related activities does not exceed 100 hours during each rolling 12 consecutive month period. Operation while mitigating emergency conditions is unlimited.~~

~~[Basis: Toxic Risk Screen, cumulative increase]~~

~~2. Deleted (basis: Redundant with 9-8-231) "Emergency Conditions" is defined as any of the following:~~

- ~~a. Impending threat of fire~~
- ~~b. Fire~~

~~[Basis: Reg. 9-8-231, cumulative increase]~~

~~3. Deleted (basis: Redundant with 9-8-232) "Reliability related activities" is defined as any of the following:~~

- ~~a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or~~
- ~~b. Operation of an emergency standby engine during maintenance of a primary motor.~~

~~[Basis: Reg. 9-8-232]~~

~~4. Deleted (basis: Redundant with 9-8-530 and ATCM Condition 23811)~~

~~Permittee/Owner/Operator shall ensure that S-57 is equipped and operated with:~~

~~a. a District approved non-resettable totalizing meter that measures and records the hours of operation for S-57.~~

~~Basis: Reg. 9-8-530, cumulative increase]~~

~~5. Deleted (basis: Parts 5a-5 redundant with 9-8-530 and Part 5d redundant with ATCM Condition 23811) Records: Permittee/Owner/Operator shall ensure that for S-57, the following monthly records are maintained in a District approved log and retained on site for at least 5 years from date of last entry, and that these records are made available for District inspection upon request:~~

~~a. Hours of operation (total).~~

~~b. Hours of operation (emergency).~~

~~c. For each emergency, the nature of the emergency condition.~~

~~d. Fuel usage each month by fuel name.~~

~~[Basis: Reg. 9-8-530, Reg. 1-441, cumulative increase]~~

~~6. Deleted (basis: Past due requirement and redundant with "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e3)(1)(B)(1))~~

~~Permittee/Owner/Operator shall ensure that on August 1, 2003 and thereafter, no fuel other than CARB Ultra Low Sulfur diesel fuel is fired at S-57. CARB Ultra Low Sulfur diesel fuel has a total sulfur content not greater than 15 ppmw.~~

~~[Basis: BACT, cumulative increase]~~

Condition 20672

CONDITION # 20672

Application #6945; Amended by Application #7776; Supersedes Condition 20672 Parts B1 through B10.

Administratively changed by Application 19419 (June 2009). Updated to remove parts superseded by standard conditions and parts redundant with District regulations.

S-1487 Tank 38 Fire-Water Pump Engine; Diesel Fired, 420 BHP, Caterpillar
3406DBITA; Maximum Firing Rate: 2.79 MMBtu/hr

A1. Deleted. (basis: Superseded by Condition 22851, Part 1 Permittee/Owner/Operator shall operate S-1487 exclusively to mitigate emergency conditions or for reliability-related activities. For S-1487, Permittee/Owner/Operator shall ensure that operation for reliability-related activities does not exceed 100 hours during each rolling 12 consecutive month period. Operation while mitigating emergency conditions is unlimited.

(basis: cumulative increase, toxics)

A2. Deleted (basis: "Emergency Conditions" is defined in Regulation 9-8-231.5) "Emergency Conditions" is defined as any of the following:

A. Impending threat of fire

B. Fire

(Basis: Reg. 9-8-231)

A3. Deleted (basis: ("Reliability-related activities" is defined in Regulation 9-8-232)"Reliability related activities" is defined as any of the following:

A. Operation of S-1487 to test its ability to perform for an emergency use, or

B. Operation of S-1487 during maintenance of a primary motor.

(basis: Reg. 9-8-232)

A4. Deleted. (basis: Hour meter requirement redundant with Regulation 9-8-530. Permittee/Owner/Operator shall equip S-1487 with:

A. a non-resettable totalizing meter that measures and records the hours of operation for S-1487.

(basis: Reg. 9-8-530)

A5. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with NOx emissions less than or equal to 9.65 grams/bhp-hr.

(basis: BACT)

A6. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with CO emissions less than or equal to 1.71 grams/bhp-hr. (basis: BACT)

A7. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530. Record retention requirement redundant with Regulation 2-6-501. Records:

Permittee/Owner/Operator shall record each of the following each month in a District approved log for S-1487:

A. Hours of operation (total).

B. Hours of operation (emergency).

C. For each emergency, the nature of the emergency condition.

D. Fuel usage each month by fuel type.

Permittee/Owner/Operator shall ensure that the District approved log is retained on site for at least 5 years from date of last entry and that the log is made available to the District staff upon request.

(basis: Reg. 9-8-530, Reg. 1-441)

A8. At S-1487, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw at S-1487.

(basis: BACT, cumulative increase)

A9. Startup Condition Deleted (basis: BACT, cumulative increase, start-up). (Deletion basis: Startup source tests completed and verified by the District). Permittee/Owner/Operator shall, not more than 30 days after initial start-

~~up, conduct a District approved source test to demonstrate compliance with Part A5 of these conditions.~~

~~Permittee/Owner/Operator shall, within 45 days of the date of completion of the District approved source test, submit two identical copies of the results of the source test, each referencing permit application #6945, S-1487, and plant #14628 to the District's Engineering Division. Permittee/Owner/Operator shall ensure that the District is in receipt of both copies of the source testing results not more than 45 days after the date of the source testing. (basis: BACT, cumulative increase, start-up)~~

S-1488 Canal Fire-Water Pump Engine; Diesel Fired, 538 BHP, Caterpillar 3412T; Maximum Firing Rate: 3.5 MMBtu/hr

B1. ~~Deleted (basis: [Superseded by Condition 22851, Part 1](#))~~

~~Permittee/Owner/Operator shall operate S-1488 exclusively to mitigate emergency conditions, for reliability related activities, or to conduct District approved source testing pursuant part B10 of these conditions. For S-1488, Permittee/Owner/Operator shall ensure that operation for reliability related activities does not exceed 100 hours during each rolling 12 consecutive month period. Operation while mitigating emergency conditions is unlimited. (basis: cumulative increase, toxics)~~

B2. ~~Deleted ("[Emergency Conditions](#)" is defined in Regulation 9-8-231.5)"Emergency Conditions" is defined as any of the following:~~

~~A. Impending threat of fire~~

~~B. Fire~~

~~(Basis: Reg. 9-8-231)~~

B3. ~~Deleted (basis: "[Reliability-related activities](#)" is defined in Regulation 9-8-232)"Reliability related activities" is defined as any of the following:~~

~~A. Operation of S-1488 to test its ability to perform for an emergency use, or~~

~~B. Operation of S-1488 during maintenance of a primary motor.~~

~~(basis: Reg. 9-8-232)~~

B4. ~~Deleted (basis: [Hour meter requirement redundant with Regulation 9-8-530](#))Permittee/Owner/Operator shall equip S-1488 with a District approved:~~

~~A. non-resettable totalizing meter that measures and records the hours of operation for S-1488. (basis: Reg. 9-8-530)~~

B5. Permittee/Owner/Operator shall only operate S-1488 at a brake specific NOx emission rate less than or equal to 8.0 grams/bhp-hr.
(basis: BACT)

B6. Permittee/Owner/Operator shall only operate S-1488 at a brake specific CO emission rate less than or equal to 1.15 grams/bhp-hr.

(basis: BACT)

- B7. Permittee/Owner/Operator shall only operate S-1488 at a brake specific PM-10 emission rate less than or equal to 0.22 grams/bhp-hr.

(basis: cumulative increase, offsets)

- B8. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530, Record retention requirement redundant with Regulation 2-6-501).Records:

Permittee/Owner/Operator shall record each of the following each month in a District approved log for S-1488:

- A. ~~Hours of operation (total).~~
- B. ~~Hours of operation (emergency).~~
- C. ~~For each emergency, the nature of the emergency condition.~~
- D. ~~Fuel usage each month by fuel type.~~

Permittee/Owner/Operator shall retain the District approved log on site for at least 5 years from date of last entry and ensure that the log is made available to the District staff upon request.

(basis: Reg. 9-8-530, Reg. 1-441)

- B9. At S-1488, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw ~~is used at S-1488.~~

(basis: BACT, cumulative increase)

- B10. Startup Condition Deleted (basis: BACT, cumulative increase, start-up) (Deletion basis: Startup source tests completed and verified by the District)Not more than 30 days after initial start up of S-1488, Permittee/Owner/Operator shall conduct a District approved source test at S-1488 to demonstrate compliance with Part B5, Part B6, and Part B7 of these conditions.

Permittee/Owner/Operator shall, within 60 days of the date of completion of the District approved source test, submit four identical copies of the results of the source test and supporting information, each referencing permit application #7776, S-1488, and plant #14628, to the District with one copy addressed to the District's Source Test Manager per the Manual of Procedures, with another copy addressed to the Director of the Compliance and Enforcement Division, and with two copies addressed to the District's Engineering Division. Permittee/Owner/Operator shall ensure that the District is in receipt of all four copies of the source testing results and supporting documentation not more than 60 days after the date of the source testing.

(basis: BACT, cumulative increase, start-up)

Condition 20682

~~COND# 20682~~-----

S-659 Coke Storage Tank (Silo) A-659 abated by A-9 Coke Silo Electrostatic Precipitator

S-660 Coke Storage Tank (Silo) A-660 abated by A-9 Coke Silo Electrostatic Precipitator

1. Permittee/Owner/Operator shall ensure that S-659 and S-660 are abated by A-9 at all times that petroleum coke transfer operations occur at/to/from S-659 and/or S-660 and at all times that there is air flow from S-659 and/or S-660 to A-9.

(basis: cumulative increase)

2. Permittee/Owner/Operator shall ensure that the total throughput of petroleum coke to S-659 and S-660 does not exceed 1,016,160 tons during each rolling consecutive 12 month period.

(basis: cumulative increase)

3. In a District approved log, Permittee/Owner/ Operator shall record the amount of petroleum coke transferred to S-659 and S-660 during each month and during each rolling 12 consecutive month period. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.

(basis: cumulative increase)

~~COND#~~**Condition 20923**

Application #7768

S-134 Fixed Cone Roof Tank; Tank A-134,

Capacity: 651,000 Gallons,

Storing: Recovered Oil

abated by A-14 Vapor Recovery System

1.) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-134 does not exceed 700,000 barrels during every 12 consecutive month period.

(basis: cumulative increase, toxics, offsets)

2.) Permittee/Owner/Operator shall ensure that no VOC/petroleum material other than recovered oil/slop oil is throughput to or stored in S-134.

(basis: cumulative increase, offsets)

- 3.) Permittee/Owner/Operator shall ensure that S-134 is abated by A-14 Vapor Recovery System at all times that VOC/petroleum material is throughput to or stored/contained in S-134.
(basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb, offsets)
- 4.) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-134, in gallon or barrel units, by the material's name as disclosed on the MSDS for the material (e.g., slop oil/recovered oil) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.
(basis: cumulative increase, toxics, offsets)

Condition 21053

Tesoro Refining and Marketing Company
150 Solano Way
Martinez, CA 94533

Application 17928 (October 2008) Removed demolished sources S317, S324, S431, S457, S46, S21, and S991.

Application ~~XXXX~~19328/19329 (June 2009) Removal of S700 from Part 6

1. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
2. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1401, S-1404, and S-1411 to demonstrate compliance with Regulation 6-1-301 (Ringelmann 1 or 20% opacity). 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 6-1-301]
3. The Owner/Operator shall conduct an annual District-approved source test on the S-323, to demonstrate that the combined collection/destruction efficiency of A-14 is no less than 99.5%, by weight, for VOC. The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Engineering 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: BAAQMD Condition 13605, Part 3 and 4, and BAAQMD Regulation 2-1-403]

4. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements are effective April 1, 2004.
5. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
6. The owner/operator of the listed tanks shall abate them by the A14 Vapor Recovery System at all times of operation, except as allowed in Regulation 8-5. A14 Vapor Recovery System compresses the vapors to be mixed with the refinery fuel gas system for combustion in S908, S909, S912, or S913, ~~or S991~~. The owner/operator will meet a POC destruction efficiency of at least 95% by weight.
Tanks: S318, S367, S134, S137, S513 (basis: 60.113b(c)(2))
Tanks: S323, ~~S317, S324, S431, S432, S457, S46, S603~~, (basis: 63.646(a), 63.120(d)(5))
~~Tank: S700 (basis: Regulation 8-8-305.2)~~
7. The owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal.:

S-908 No. 8 Furnace @ No. 3 Crude Unit
S-909 No. 9 Furnace @ No. 1 Feed Prep.
S-912 No. 12 Furnace @ No. 1 Feed Prep.
S-913 No. 13 Furnace @ No. 2 Feed Prep.
~~S-991 FCCU Preheat Furnace~~

-to measure for each source each of the following:

the fuel feed rate in pounds/hr
the POC emission rate at the stack
the flue gas flow rate in SCFM at the stack
the oxygen content of the stack flue gas
the destruction efficiency of POC/VOC as measured across the Furnace/combustion device

The owner/operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 45 days following the date of the source test.

~~COND# 21100~~-----

Condition 21100:

Application #8002 (December 11, 2003)

Amended by Application #9728 (June 25, 2004): Increase vapor pressure from 8 to 11 psig, decrease throughput from 5,500,000 barrels/yr to 2,500,000 barrels/yr, add monitoring.

Amended by Application 10659: Clarification of conditions including "net" versus "total" throughput limit.

Application 17928/1742817458(2008) Remove Demolished and OOS Sources.

S-1496 Fixed Roof Tank; Tank A-876, Capacity: 80,000 Barrels, Storing: Heavy Reformate with Pentanes, Straight Run Heavy Naphtha abated by A-14 Vapor Recovery System

1) The total net throughput at tank S-1496 shall not exceed 2,500,000 barrels in any consecutive 12-month period. The owner/operator shall use a radar-monitoring device to measure the height of the tank. The owner/operator shall use the change in height to calculate throughput.
(basis: Cumulative Increase, Toxic Risk Screen, Offsets)

2) Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid break down at No. 1 Gas Plant vapor recovery compressor(s), the owner/operator shall ensure that S-1496 (excluding the pressure vacuum relief valve vent), including the pressure vent at S-1496, is abated by A-14 at all times. The A-14 Vapor Recovery System shall have a destruction efficiency of at least 99.5% by weight as measured across the combustion device(s) burning the vapors from the fuel gas system.
(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 8-5, NSPS, Regulation 10 Subpart Kb)

3) Materials stored in S-1496 shall be limited to the following:

a. Heavy reformate, heavy reformate with pentanes, fractionator splitter bottoms, conventional gasoline stock, heavy naphtha, or straight run gasoline with a true vapor pressure less than 11 psia.

b. A liquid other than those specified above may be stored in S-1496, provided that both all of the following criteria are met:

1. True vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in part 1, do not exceed 8,868 pounds per year; and⁴

3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets)

4) To determine compliance with part 2, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit
S-909 No. 9 Furnace @ No. 1 Feed Prep.
S-912 No. 12 Furnace @ No. 1 Feed Prep.
S-913 No. 13 Furnace @ No. 2 Feed Prep.
~~S-991 FCCU Preheat Furnace~~

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 35 days of the source test.
(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

5) To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- c. The time, date, duration, and reason for each instance that S-1496 is not abated by A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 8-5-501, Regulation 1-238)

Condition 21186

Application 6820

[Administratively Revised by Application 19874 \(July 2009\) Updates for Combustion Sources](#)

S-916 No. 16 Furnace - No. 1 HDS Heater; Firing Refinery Fuel Gas, Natural Gas, Maximum Firing Rate: 55 MMBtu/hr

S-917 No. 17 Furnace - No. 1 HDS Prefractionator Reboiler, Maximum Firing Rate: 18 MMBtu/hr

1. Once each day while 100# Fuel Gas is fired at S-916 and/or S-917, except for 36 calendar days per rolling 52 consecutive week period, and except for each calendar day when no fuel is fired at S-916 and S-917, and except for each calendar day that natural gas is fired exclusively at both S-916 and S-917, Permittee/Owner/Operator shall sample the Fuel Gas to be fired at S-916 and/or S-917 directly upstream of burner fuel gas feed line to S-916 and S-917, and Permittee/Owner/Operator shall ensure that the sample is subjected to laboratory analysis to determine the total reduced sulfur (TRS) content of the sample, in ppmvd units.

Permittee/Owner/Operator shall ensure that the laboratory analysis method employed is a method that is approved by the District.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

2. Not more than 14 days after the date that each sample of the Fuel Gas sample is taken pursuant to part 1 of these conditions, Permittee/Owner/Operator shall ensure that the laboratory analysis of the sample is completed and that the result of each sample analysis, disclosing the TRS content of the sample in ppmvd, is recorded in a District approved log.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

3. Permittee/Owner/Operator shall ensure that the TRS content of the Fuel Gas to be fired at S-916 and/or S-917 is NOT greater than 300 ppmvd. This condition will have been violated when the result of any daily laboratory analysis of the TRS content of the Fuel Gas to be fired at S-916 and/or S-917 is greater than 300 ppmvd.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

4. Permittee/Owner/Operator shall ensure that annual average of the daily Fuel Gas sample TRS analysis results is NOT greater than 281 ppmvd. This condition will have been violated when the annual average of the daily Fuel Gas sample TRS analysis results is greater than 281 ppmvd.

Permittee/Owner/Operator shall determine the annual average of the daily Fuel Gas sample TRS analysis results by summing the TRS analysis results of each day during each rolling 52 consecutive week period, and dividing the sum by the number of days of sample analysis results.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

5. ~~Deleted. (Daily fuel gas sampling and analysis started May 20, 2004.)~~

~~Permittee/Owner/Operator shall begin daily sampling and analysis of the Fuel Gas to be fired at S-916 and S-917 as required by these conditions 120 days after the date of issuance disclosed on the Permit to Operate issued under permit application #6820.~~

~~(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)~~

6. ~~Deleted. (Variables that affect TRS content of fuel gas provided February 17, 2004.)~~ Not more than 30 days after the date of issuance disclosed on the Permit to Operate issued under permit application #6820, Permittee/Owner/Operator shall provide the District's Engineering Division with a list of the variables that affect the TRS content of the 100# Fuel Gas, a

~~description of the emissions impact of each variable, and an explanation of what, if anything, Permittee/Owner/Operator currently does to control each variable.
(basis: Regulation 2-1-403)~~

7. Each calendar day, in a District approved log, Permittee/Owner/Operator shall record:
- A. Each fuel fired at S-916 each calendar day.
 - B. Each fuel fired at S-917 each calendar day.
 - C. Each calendar day that no fuel is fired at S-916.
 - D. Each calendar day that no fuel is fired at S-917.
 - E. Not more than 14 days after the date that a sample of Fuel Gas is taken pursuant to part 1 of these conditions, the results of each analysis disclosing the TRS content of the Fuel Gas sample, in units of ppmvd, along with the date the sample was taken, the District approved laboratory method used, and the identity of the entity completing the laboratory sample analysis.
 - F. The annual average of the daily Fuel Gas sample TRS analysis results.

Permittee/Owner/Operator shall ensure that each District approved log required pursuant to these conditions is kept on site, is retained for a period of not less than 5 years from date of last entry, and is made available to the District upon request.
(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

Condition 21393

~~COND# 21393~~-----

Application #9129 (April 2004).

Administratively Changed via Application 17537, July 2008

S-871 Tank A-871, External Floating Roof, Capacity: 13,146K gallons, Crude and Low Sulfur Vacuum Gas Oil Storage

- 1) The total throughput at tank S-871 shall not exceed 20,000,000 barrels in any consecutive 12-month period.
(basis: Cumulative Increase, Toxic Risk Screen, BACT)
- 2) Materials stored in S-871 shall be limited to the following:
 - a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be stored in S-871, provided that both of the following criteria are met:

1. true vapor pressure must be less than 11 psia
 2. POC emissions, based on the maximum throughput in part 1, do not exceed 15,904 pounds per year; and
 3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.
- (basis: Cumulative Increase, Toxic Risk Screen)

3) Deleted. Final fitting count was provided and offsets were adjusted in January 2007 via Application 9129. ~~The owner/operator disclosed to the District that S-871 would be equipped with the following fittings:~~

~~Access Hatch (1)
Slotted Guide Pole (1)
Radar Gauge System (1)
Vacuum Breaker (1-12")
Roof Leg, Pontoon Area (40)
Roof Leg, Center Area (60)
Roof Drain, 90% closed (2)
Roof Drain, open to atmosphere (not hydrocarbon in tank) (1-6")~~

~~Within 30 days of loading any petroleum material into S-871, the owner/operator shall notify the District's Permit Evaluation Section in writing of the type and quantity of all fittings. If the District determines that the fittings at S-871 result in a POC emission rate in excess of the amount of POC emissions offset, then the owner/operator shall surrender District approved emission reduction credits of the type and amount specified by the District. The emission reduction credits must be received by the District within 30 days after receipt of the District's written request for offsets. If the District's calculations of permitted emissions from S-871 are less than the emissions offset by the owner/operator, then the District shall refund the amount of credits that are in excess of emissions.~~

~~(basis: Cumulative Increase, Toxic Risk Screen, Offsets)~~

4) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.

b. For external floating roof tanks, the owner/operator who replaces all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

Condition 21535

COND# 21535

Application #9160 (June 15, 2004)

S-1491 Fixed Volume Portable Tank #3; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

1) The total throughput at tank S-1491 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2) The owner/operator shall abate S-1491 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

3) Materials stored in S-1491 shall be limited to the following:

a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be stored in S-1491, provided that both of the following criteria are met:

1. Slop Oil and water mixture with true vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in part 1, do not exceed 355.75 pounds per year; and

3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen)

4) The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

5) These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with parts number 6 and 7, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.

(basis: Cumulative Increase, Toxic Risk Screen)

6) The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

a. 10 % of the inlet stream VOC concentration to the Carbon vessel.

b. 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

7) The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

8) Any exceedance of conditions parts 6 and/or 7 shall be reported to the Permit Services Division with the log as well as the corrective action taken. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(basis: Cumulative Increase, Toxic Risk Screen)

9) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.

b. Each monitor reading or analysis result for the day of operation they are taken.

c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping Requirements shall not replace the recordkeeping Requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

Condition 21536

COND# 21536-----

Application #9259 (June 15, 2004)

S-1489 Fixed Volume Portable Tank #1; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

S-1490 Fixed Volume Portable Tank #2; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

1) The total throughput at tank S-1489 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2) The total throughput at tank S-1490 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

3) The owner/operator shall abate S-1489 and S-1490 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

4) Materials stored in S-1489 and S-1490 shall be limited to the following:

a. Slop Oil and water mixture with a true vapor pressure less than 11 psia

b. Liquids other than those specified above may be stored in S-1489 and S-1490, provided that both of the following criteria are met:

1. true vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in parts 1 and 2, do not exceed 711.50 pounds per year;and

3. toxic emissions in lbs/year, based on the maximum throughput in parts 1 and 2, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen)

5) The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

6) These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with parts number 7 and 8, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.

(basis: Cumulative Increase, Toxic Risk Screen)

7) The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

a. 10 % of the inlet VOC stream concentration to the Carbon vessel.

b. 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

8) The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

9) Any exceedance of conditions parts 7 and/or 8 shall be reported to the Permit Services Division with the log as well as the corrective action taken. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(basis: Cumulative Increase, Toxic Risk Screen)

10) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.

b. Each monitor reading or analysis result for the day of operation they are taken.

c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These

recordkeeping Requirements shall not replace the recordkeeping Requirements contained in any applicable District Regulations.
(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

Condition 21751

Application #9788 (September 17, 2004)

Application #10880 (October, 2004): Amendment to refund offsets and clarify conditions.

Application 18861/18862 (2008) Remove Redundant and Completed Fugitive Conditions

Ultra Low Sulfur Diesel Project

S-920 No. 2 HDS Charge Heater, No. 20 Furnace, Foster Wheeler, Maximum Firing Rate: 63 MMBtu/hr

S-1001 No. 50 Crude Unit

S-1003 No. 2 HDS Unit

~~1) Deleted. Completed. Not more than 30 days after the start-up of the Ultra Low Sulfur Diesel Project (S-920, S-1001, and S-1003), the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:~~

~~22 valves in gas service
15 valves in liquid service
30 connectors/flanges~~

~~(basis: Cumulative Increase, offsets)~~

~~2) Deleted. Completed. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.~~

~~(basis: offsets)~~

~~3) Deleted. ATC construction requirement completed. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.~~

~~(basis: BACT, Regulation 8-18)~~

~~4) Deleted. ATC construction requirement completed. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.~~

~~(basis: BACT, Regulation 8-18)~~

~~5) Deleted. ATC construction requirement completed. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.~~

~~(basis: BACT, Regulation 8-18)~~

~~6) Deleted. ATC construction requirement completed. The owner/operator shall install compressor seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.~~

~~(basis: BACT, Regulation 8-18)~~

~~7) Deleted. ATC construction requirement completed. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture and destruction efficiency of at least 98% by weight.~~

~~(basis: BACT, Regulation 8-28)~~

~~8) Deleted. ATC construction requirement completed. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic equipment in organic service installed as part of the Ultra Low Sulfur Diesel Project into the facility fugitive equipment monitoring and repair program.~~

~~(basis: BACT, Regulation 8-18)~~

Condition 21849

~~COND# 21849~~-----

PERMIT CONDITIONS

Application #10668 (October 29, 2004)

Loading Rack Modernization Project

~~Application #10668 (October 29, 2004): Loading Rack Modernization Project~~

Application #13493 (October, 2005): Modification of emission limit from S-1025 to the RACT and Regulation 8-33-301 level of 0.08 lb POC per 1000 gallon of material loaded.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Application 17928/174528 (2008) Remove Demolished and OOS Sources

S-~~613~~ Vapor Recovery Tank A-613; Fixed Roof Tank, Capacity 420K Gallons, Storing: Organic Liquid

S-696 Tank A-696; Internal Floating Roof Tank, Capacity 630K Gallons, Storing: Gasoline

S-1025 Bulk Terminal Bottom Loading Facilities: Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil, Ethanol

S-1504 Bulk Terminal Unloading Rack: Ethyl Alcohol

Fugitive Components

1) Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided. ~~Not more than 30 days after the start up of the Loading Rack Modernization Project (S-613, S-6961, S-1025, and S-1504), the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:~~

~~33 valves in gas service
460 valves in liquid service
4 pumps
1 PRV in gas service
10 PRVs in liquid service
1630 connectors/flanges~~

~~(basis: Cumulative Increase, offsets, toxics risk screen)~~

2) Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided. ~~If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.~~

~~(basis: offsets)~~

3) ~~Deleted. ATC construction requirement completed. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.~~

~~(basis: BACT, Regulation 8-18, toxics risk screen)~~

4) ~~Deleted. ATC construction requirement completed. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.~~

~~(basis: BACT, Regulation 8-18, toxics risk screen)~~

5) ~~Deleted. ATC construction requirement completed. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.~~

~~(basis: BACT, Regulation 8-18, toxics risk screen)~~

6) ~~Deleted. ATC construction requirement completed. Redundant with Regulation 8-28. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process, to the refinery fuel gas system, or to an abatement device with a capture and destruction efficiency of at least 98% by weight.~~

~~(basis: BACT, Regulation 8-28, toxics risk screen)~~

7) ~~Deleted. Redundant with Regulation 8-18. Components were incorporated into facility LDAR program on project startup. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of the Loading Rack Modernization Project into the facility fugitive equipment monitoring and repair program.~~

~~(basis: BACT, Regulation 8-18)~~

S-1025 Bulk Plant Bottom Loading Facilities: Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil, Ethanol

8) The owner/operator of S-1025 shall apply for the proper certification from the California Air Resources Board (CARB) for the A-14 Vapor Recovery System prior to startup.

(basis: Regulation 8-33-301, 302)

9) The owner/operator of S-1025 Bulk Plant Loading Facilities shall not exceed the following throughputs.

64,457 barrels (2,707,194 gallons) per day

18,615,000 barrels (781,830,000 gallons) per any 12 month consecutive period

(basis: ~~cumulative increase, offsets~~, toxic risk screen)

10) The owner/operator of S-1025 shall not transfer any material other than gasoline, naphtha, kerosene, diesel, fuel oil, or ethanol.

(basis: ~~cumulative increase, offsets~~, toxic risk screen)

11) To ensure that the S-1025 Bulk Plant Unloading Rack does not exceed an emission factor greater than 0.08 lb POC per 1000 gallons of material loaded, the owner/operator shall:

a) not operate S-1025 unless vented to S-613 Vapor Recovery Tank or A-14 Vapor Recovery System.

b) install a sample line from each of the pressure-vacuum valves located at the loading racks, which is easily accessible by District personnel to determine any valve leakage.

c) install and maintain a pressure switch at the knockout pot, V-61, located at the interface of the vapor outlet of the S-1025 Loading Rack and the inlet to the A-14 Vapor Recovery and S-613 Vapor Recovery Tank Systems. The pressure switch shall be set at 18 inches of water column as measured at the cargo tank/vapor coupler interface located the furthest from the knockout pot, V-61. If the pressure exceeds 18 inches, a high-pressure alarm will shutdown loading rack operations.

d) conduct District approved source tests to determine POC destruction efficiency at the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit

S-909 No. 9 Furnace @ No. 1 Feed Prep.

S-912 No. 12 Furnace @ No. 1 Feed Prep.

S-913 No. 13 Furnace @ No. 2 Feed Prep.

~~S-991 FCCU Preheat Furnace~~

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Section within 45 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238, BACT)

12) To determine compliance with the parts 8-11, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. California Air Resources Board certification of A-14.

- b. On a daily basis, type and quantity of product loaded.
- c. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- d. The time, date, duration, and reason for each instance that S-1025 is not abated by S-613 ~~and~~ or A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238)

S-1504 Bulk Plant Unloading Rack: Ethanol

13) The owner/operator of S-1504 Bulk Plant Unloading Rack shall not exceed the following throughput.

1,240,000 barrels per any 12-month consecutive period

(basis: cumulative increase, offsets, toxic riskscreen)

14) The owner/operator of S-1504 shall not transfer any material other than ethanol.

(basis: cumulative increase, offsets, toxic risk screen)

15) To determine compliance with parts 13 and 14, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a daily basis amount of ethanol transferred.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)

Condition #22070

S-1005 No. 1 Hydrogen Plant: CO2 Vents #1 & #2:

The owner/operator shall conduct a District approved annual source test at CO2 Vent #1 and CO2 Vent #2 at the S-1005 No. 1 Hydrogen Plant to demonstrate compliance with Regulation 8-2-301 in accordance with District source test methods or other methods approved in advance by

the District. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO. A copy of the test report shall be provided to the Engineering Division, the District Director of Compliance and Enforcement, and the District Source Test Division within 45 days of completion of the test. Records of the source test results and any related correspondence with the District's Source Test Division shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document.
(Basis: Regulation 2-6-409.2)

Condition #22150

Modified by App. 18739 (Nov 2008) Removal of S903 & A8.

Application 19300 (Dec 2008) Remove S-904 Backup CO Boiler Service and A-11

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 18261 Title V Renewal. Added Regulation 6-1-311 to Part 2.

For ESPs ~~A8, A11, and A30~~ abating CO Boiler ~~S903, S904, and S901~~, respectively.

1. In order to ensure compliance with Regulation ~~6-1-310~~ and 6-1-311, the owner/operator of ~~A-8 Coker CO Boiler Precipitator, A-11 No. 6 Boiler Plant Precipitator, and A-30 FCCU Electrostatic Precipitator,~~ shall conduct continuous monitoring of ESP opacity monitoring.
(Basis: Regulation ~~6-1-310~~, 6-1-311, 2-6-503)
2. Each time opacity of emissions from ~~A-8 Coker CO Boiler Precipitator, A-11 No. 6 Boiler Plant Precipitator, or A-30 FCCU Electrostatic Precipitator~~ exceeds 30%, except for one 6-minute average opacity reading in any 1-hour period, the owner/operator shall conduct a source test to determine compliance with Regulation ~~6-1-310~~ and 6-1-311. Each time the opacity exceeds this range, the owner/operator shall conduct a source test to determine compliance with Regulation ~~6-1-310~~. The owner/operator shall conduct the source test within 45 days of detection of the exceedance.
(Basis: Regulation ~~6-1-310~~, 6-1-311, 2-6-503)
- ~~3. Deleted. (Exceedance reporting is redundant with Title V Standard Condition I.F) Exceedences of the opacity compliance range are deviations and shall be reported as deviations in all Title V reports.
(Basis: Regulation 2-6-503)~~

Condition 22227

S-823 Heat Exchanger Cleaning Pit North
S-824 Heat Exchanger Cleaning Pit South

1. During heat exchanger tube cleaning at S823 Heat Exchanger Cleaning Pit North and/or S824 Heat Exchanger Cleaning Pit South, the owner/operator shall check hourly for visible emissions. The visible emissions check shall take place while the tube is being cleaned and during daylight hours. If any visible emissions are detected, the operator shall take corrective action within one day, and check for visible emissions after the corrective action is taken. The owner/operator shall continue to check for visible emissions on an hourly basis until the tube cleaning activity is completed. [basis: Regulation 2-6-409.2]
2. The owner/operator shall keep records of all visible emissions checks per Part 1 of this condition, the person performing the check, and all corrective action taken. The records shall be retained for five years and shall be made available to District personnel upon request. [basis: Regulation 2-6-409.2]

Condition 22230

~~S975 No. 4 Gas Plant Cooling Tower~~
~~S846 No. 3 HDS Cooling Tower~~
~~S976 No. 5 Gas Plant Cooling Tower~~
~~S977 Crude Unit Cooling Tower, S978 Foul Water Stripper Cooling Tower~~
~~S979 No. 2 Feed Prep Cooling Tower~~
~~S980 Hydrocracker Cooling Tower~~
~~S981 No. 1 HDS Cooling Tower~~
~~S982 No. 2 HDS Cooling Tower~~
~~S983 Alky and No. 2 Reformer Cooling Tower~~
~~S985 No. 1 Gas Plant Cooling Tower~~
~~S987 No. 50 Unit Cooling Tower~~
~~S988 No. 3 Reformer Cooling Tower~~

~~1. The owner/operator shall sample the cooling tower water at each cooling tower at least once per month and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (Regulation 2-6-503)~~

~~2. By [date 120 days after issuance of the Title V permit], the owner/operator shall determine the drift rate for each cooling tower. (Regulation 2-6-503)~~

~~3. After [date 150 days after issuance of the Title V permit], in order to ensure compliance with BAAQMD Regulation 6-311, the owner/operator shall use the total dissolved solids monitoring, design water circulation rate, and drift rate to estimate hourly emissions of particulate from the cooling towers once per month, using the following equation:~~

~~— Gal/hr x 8.345 lb water/gal x drift (weight %) x TDS (weight %)
(Regulations 1-441, 2-6-416.2, 2-6-501)~~

~~4. The owner/operator shall use an annual average of the monthly particulate determinations to estimate annual particulate emissions. The owner/operator shall report the estimated annual particulate emissions to the BAAQMD Engineering Division along with the annual update.
(Regulations 3, 2-6-501)~~

~~5. The owner/operator shall maintain the following records for five years from the date of record:
— a. Records of monthly determination of total dissolved solids
— b. Records of monthly estimates of particulate emissions
(Regulation 2-6-501)~~

Condition 22455

Application #12592 (August, 2005)

Modified by Application 17712 (June, 2008)

Amorco Transfer and Metering Project

Fugitive Components

~~1. Deleted. The project final fugitive component count was provided June 28, 2007. Not more than 30 days after the start up of the Amorco Transfer and Metering Project, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:~~

~~0 valves in gas service
121 valves in liquid service
1 pump
0 compressors
0 PRV in gas service
8 PRVs in liquid service
312 connectors/flanges~~

~~(basis: cumulative increase, offsets, toxics risk screen)~~

~~2. Deleted. The increase in total fugitive component emissions was offset in July, 2007. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted~~

~~accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.
(basis: offsets)~~

~~3. Deleted. The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-302. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(basis: BACT, Regulation 8-18, toxics risk screen)~~

~~4. Deleted. The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-304. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(basis: BACT, Regulation 8-18, toxics risk screen)~~

~~5. Deleted. The Authority to Construct requirement to install BACT compliant pump seals was satisfied. Fugitive organic emissions less than 500 ppm is required by Regulation 8-18-303. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
(basis: BACT, Regulation 8-18, toxics risk screen)~~

~~6. Deleted. The Authority to Construct requirements for Pressure Relief Valves was satisfied. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process or to the refinery fuel gas system with a capture and destruction efficiency of at least 98% by weight.
(basis: BACT, Regulation 8-28, toxics risk screen)~~

~~7. Deleted. The Authority to Construct requirements for fugitive emissions monitoring was satisfied. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of the Amoreo Wharf Transfer and Metering Project into the facility fugitive equipment monitoring and repair program. (basis: BACT, Regulation 8-18)~~

S-55 __ Amorco Wharf Terminal, Crude Oil, Diesel, Gas Oil, Naphtha, Kerosene, Fuel Oils, 70,080,000 bbl/yr

S-19 __ Tank B-19, external floating roof, 3318K gal, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined

S-21 __ Tank B-21, external floating roof, 3276K gal, Crude Oil, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined

S-30 __ Tank B-30, external floating roof, 3318K gal, Crude Oil, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined

- S-49 __ Tank B-49, external floating roof, 5964K gal, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-50 __ Tank B-50, external floating roof, 5922K gal, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined

8. _The owner/operator of S-55 Amorco Wharf Terminal shall not exceed a throughput of 70,080,000 barrels of crude oil per any consecutive 12 month period.
(basis: cumulative increase, offsets, toxic risk screen)
9. _The owner/operator of S-19, S-21, S-30, S-49, and S-50 Tanks shall not exceed a combined throughput of 70,080,000 barrels of crude oil per any consecutive 12 month period.
(basis: cumulative increase, offsets, toxic risk screen)
10. The owner/operator shall not transfer any material received at the Amorco Wharf directly to another refinery via pipeline.
(basis: cumulative increase)
11. The owner/operator shall not ship crude from the Amorco Wharf.
(basis: cumulative increase)
12. The owner/operator shall maintain records, in a District approved log, for
- The date(s) and times at which the tank vessel arrived and departed from the marine terminal.
 - The type and amount of organic liquid cargo unloaded.
- All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.
(basis: cumulative increase, recordkeeping, Regulation 1-441)

Condition 22590

Application 13076 (October 18, 2005): Addition of natural gas pilots.

S-904 No. 6 Boiler, 775 MMBtu/hr: installation of 12 natural gas pilots with a combined maximum firing rate of 54 MMBtu/hr; MAXIMUM firing rate of burners and pilots limited to 775 MMBtu/hr

- The owner/operator shall equip the natural gas line to the pilots with a dedicated fuel flow meter.
(cumulative increase)
- The owner/operator shall ensure that S-904 Boiler is not fired above its maximum firing rate of 775 MMBtu/hr (HHV) at any time. The total amount of fuel burned at S- 904 at the natural gas pilots and the burners shall not exceed 775 MMBtu/hr.
(cumulative increase)

3. Hourly records of the type and amount of fuel burned at Boiler S-904 shall be maintained in a District approved log for at least 5 years and made available to District staff upon request.
(cumulative increase, recordkeeping)

|

Condition 22621

Application #13047 (November, 2005): Installation of low NOx burners, change fuel gas supply from 40 psig to 100 psig fuel gas.

S-913 No. 2 Feed Prep Heater (F13), 59 MMBtu/hr fired on Refinery Fuel Gas and Natural Gas

Application 18861/18862 (2008) Remove completed and redundant fugitive conditions

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Fugitive Components

1. Completed. Final fugitive count for the project submitted 3/28/2006 and offsets were provided. Not more than 30 days after the start up of the S-913 low NOx burners on 100 psig fuel gas, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:

4 valves in gas service

1 PRV in gas service

8 connectors/flanges

(basis: cumulative increase, offsets)

2. Completed. Final fugitive count for the project submitted 3/28/2006 and offsets were provided. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.

(basis: offsets)

3. Deleted. ATC construction requirement completed. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT-compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.

(basis: BACT, Regulation 8-18, offsets)

4. Deleted. ATC construction requirement completed. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT-compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.

(basis: BACT, Regulation 8-18, offsets)

5. ~~Deleted. ATC construction requirement completed. Redundant with Regulation 8-28. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process, the fuel gas recovery system, a furnace, or a flare with a capture and destruction efficiency of at least 98% by weight.
(basis: BACT, Regulation 8-28, offsets)~~

6. ~~Deleted. Redundant with Regulation 8-18. Components were incorporated into facility LDAR program on project startup. In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed into the facility fugitive equipment monitoring and repair program.
(basis: BACT, Regulation 8-18, offsets)~~

7. Once each day, while 100 pound fuel gas is fired at S-913, except for 36 calendar days per rolling consecutive 12-month period, and except for each calendar day when no fuel is fired at S-913, and except for each calendar day that natural gas is fired exclusively at S-913, the owner/operator shall sample the fuel gas to be fired at S-913 directly upstream of the burner fuel gas feed line to S-913. The owner/operator shall ensure that the sample is subjected to laboratory analysis to determine the total reduced sulfur (TRS) content of the sample in ppmvd units. The owner/operator shall ensure that the laboratory analysis method employed is a method that is approved by the District.
(basis: cumulative increase, offsets, Regulation 2-1-403)

8. Each calendar day, the owner/operator shall maintain records, in a District approved log, for

- Each fuel fired at S-913
- Each calendar day that no fuel is fired at S-913
- Not more than 14 days after the date that a sample of fuel gas is taken pursuant to part 7+ of these conditions, the results of each analysis disclosing the TRS content of the Fuel Gas sample, in units of ppmvd, along with the date the sample was taken, the District approved laboratory method used, and the laboratory completing the sample analysis.
- The annual average of the daily fuel gas sample TRS analysis results.

All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.
(basis: cumulative increase, offsets, recordkeeping, Regulation 2-1-403)

9. ~~Deleted. (S-913 NOx Box is defined in Condition 18372, Part 31) Within 30 days of startup of S-913, the owner/operator shall perform source tests to establish the NOx box for the heater (permit condition 18372). All source testing shall be done in accordance with the District's Manual of Procedures. The facility shall receive approval from the District's Source Test Manager for installation of test ports and source testing procedures. The results shall be delivered to the District no later than 45 days from the date of the source test.
(basis: Regulation 9-10-301, Regulation 9-10-502)~~

10. In order to generate Interchangeable Emission Reduction Credits (IERC's) at S-913, the owner/operator shall:

- a. Use an emission factor of 0.033 lb/MMBtu for S-913 in the calculation of the refinery-wide emission rate from units affected by Regulation 9-10-301
- b. Generate IERC's based on the difference between NOx emissions of 0.033 lb/MMBTU and the actual emission factor obtained by source tests from generation of the NOx box (expected to be 0.024 lb/MMBtu by the owner/operator)
- c. Keep records of the firing rate and oxygen content of S-913 to ensure operation within the established NOx box.
(basis: Regulation 9-10-301, Regulation 9-10-502, Regulation 2-9)

Condition 22640

Application 132328 (November 2005)

S-1506 External Floating Roof Tank; Tank A-893, Capacity: 132,000 BBL, Storing: Gasoline and Gasoline Blending Stock

S-1507 External Floating Roof Tank; Tank A-894, Capacity: 132,000 BBL, Storing: Gasoline and Gasoline Blending Stock

1. The owner/operator shall not exceed a net throughput at each of tanks S-1506 and S-1507 of 11,000,000 barrels in any consecutive 12-month period. (basis: Cumulative Increase, Toxic Risk Screen, BACT)
2. Materials stored in S-1506 and S-1507 shall be limited to the following:
 - a. Gasoline or gasoline blending stock with a true vapor pressure less than 11 psia
 - b. A liquid other than those specified above may be stored in S-1506 and/or S-1507, provided that all of the following criteria are met:
 1. true vapor pressure must be less than 11 psia
 2. POC emissions, based on the maximum throughput in part 1, do not exceed 8,384.42 pounds per year per tank; and
 3. Toxic -emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level in Regulation 2-5.

(basis: Cumulative Increase, Toxic Risk Screen)
3. Deleted. Final tank fitting count and offsets provided prior to issue of Permit to Operate. The owner/operator disclosed the final fitting count March 14, 2008 and additional offsets were provided for the emission increase.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets)
4. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
 - a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.

b. For external floating roof tanks, the owner/operator who replaced all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years.

All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any application District Regulations. (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501).

Condition 22693

COND# 22693 -----

Application 13401 (December 2005)

Altered by Application 16082 (July 2007), addition of V-66 Degassing Drum

S-1009 Alkylation Unit: Mitigation of Atmospheric Releases, 2-PRVs on the C-2 DIB column to be vented to the V-104 Flare Knockout Pot with gases vented to the Flare Header (S-854 East Air Flare, S-944 North ~~Coker Steam~~ Flare, S-945 South ~~Coker Steam~~ Flare, S-9922 Emergency Flare, and S-1012 West Air Flare). Process wastewater to be degassed by V-66.

1. Deleted. (Final fugitive component count provided September 2008 when S-1009 was granted a Permit to Operate. Facility has been permitted for 28 valves in gas service, 46 valves in light liquid service, 3 PRVs in liquid service, and 171 flanges.) ~~Not more than 30 days after the start-up of the V-104 System, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:~~

~~11 valves in gas service
25 valves in liquid service
1 pump
0 compressors
0 PRV in gas service
0 PRVs in liquid service
32 connectors/flanges~~

~~(basis: cumulative increase, offsets)~~

2. Deleted. (Offsets provided for additional fugitive emissions in October 2008 prior to S-1009 being granted a Permit to Operate. Facility is permitted for a total fugitive POC emissions of 0.110 tons.) ~~If there is an increase in the total fugitive component emissions, the plant's~~

~~emulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.
(basis: offsets)~~

~~3 Deleted. (The Authority to Construct design requirements for valves ~~was~~ were verified when S-1009 was granted a Permit to Operate in October 2008.) -The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(basis: BACT, Regulation 8-18)~~

~~4. Deleted. (The Authority to Construct design requirements for flanges/connectors ~~was~~ were verified when S-1009 was granted a Permit to Operate in October 2008.) The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm.
(basis: BACT, Regulation 8-18)~~

~~5. Deleted. (No pumps were installed.) The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
(basis: BACT, Regulation 8-18)~~

~~6. Deleted. (The Authority to Construct design requirements for Pressure Relief Valves ~~was~~ were verified when S-1009 was granted a Permit to Operate in October 2008.) The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process or to the refinery fuel gas system with a capture and destruction efficiency of at least 98% by weight.
(basis: BACT, Regulation 8-28)~~

~~7. Deleted. (Redundant with Regulation 8-18. Fugitive components associated with this application were incorporated into the facility LDAR program upon startup.) ~~In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of the Project into the facility fugitive equipment monitoring and repair program.~~ (basis: BACT, Regulation 8-18)~~

~~8. Deleted. (The Authority to Construct design requirements for Pressure Relief Valves on C-2 DIB Column ~~was~~ were verified when S-1009 was granted a Permit to Operate in October~~

~~2008.)The two pressure relief valves on the C-2 DIB column of the S-1009 Alkylolation unit shall be vented at all times to the V-104 Flare Knockout Pot with gases vented to the Flare Header (S-854 East Air Flare, S-944 North Coker Flare, S-945 South Coker Flare, S-922 Emergency Flare, and S-1012 West Air Flare). Vented liquid shall be sent for further processing or reprocessing at the refinery.~~

~~(basis: Regulation 8-28-304.2)~~

9. Immediately after the startup of the V-104 System, the 10" tie in line downstream of the two pressure safety valves on the C-2 DIB column shall be blinded.

(basis: Regulation 8-28-304.2)

Condition 22851

Application 19419 (June 2009)

Firewater Pumps for Facility B2758: S-1469, S-1471, S-1472, S-1475, S-1476, S-1487, S-1488

1. Operating for reliability-related activities is limited to no more than 34 hours per year per engine which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. This emergency fire pump is subject to the current National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems." [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations]

2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3)]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1)] or (e)(2)(B)(2)]

Condition 23129

Application 14141/14144 Coker Modification Project,

Modified by Application 16389/16390 and Application 18311 (Modify Part 26 – Initial source tests for heaters).

Application 20679/20680 (July 2009) Revise throughput in Part 3

The following permit conditions will be imposed to ensure that the proposed project complies with all applicable District, State, and Federal Regulations. The conditions limit operational parameters such as fuel use, stack gas emission concentrations, and mass emission rates. Permit conditions will also specify abatement device operation and performance levels. For compliance assurance purpose, conditions specifying emission monitoring, source testing, and record keeping requirements are included. Furthermore, pollutant mass emission limits (in units of lb./hr) will ensure that daily and annual emission rate limitations are not exceeded.

Compliance with CO and NO_x limitations will be verified by continuous in-stack emission monitors (CEMs) that will be in operation during all heater operating modes, including start-up and shutdown. Compliance with SO₂ and H₂S limits will be determined by monitoring the total

reduced sulfur (TRS) concentration level in the refinery fuel gas with a TRS analyzer. If natural gas is burned, the sulfur content will be assumed to be the same as natural gas specifications. Compliance with POC and PM10 mass emission limits will be demonstrated by annual source testing.

Delayed Coker (S-1510)

1. The owner/operator of source S-1510 shall not exceed Ringelmann No. 1.0, for three minutes in any consecutive 60-minute period. (basis: Regulation 6-1).
2. The owner/operator of the delayed coker (S-1510) shall wash the pad area surrounding the Coke Pit and dewatering pad (where coke drops from the coker) at least once per day when the coker is operating or when coke is being removed from the coke drums. (basis: cumulative increase)
3. The owner/operator of S-1510 delayed coker shall not process more than ~~55,000~~53,200 barrels per day (12 midnight to 12 midnight), and ~~20,075,000~~17,447,000 barrels in any consecutive 12-month period. (basis: Cumulative increase)
4. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall inspect and maintain all new valves, pumps and flanges/connectors associated with this project according to District Regulation 8-18. (basis: Regulation 8-18)
5. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall ensure that each new pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% POC, or more, approved for this use in advance by the District. (basis: Regulation 8-28, BACT)
6. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall ensure that each new process sample system in light liquid service installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: cumulative increase)
7. ~~Deleted. [Final fugitive component count provided August 1, 2008. The Owner/Operator has been permitted to install fugitive components (992 gas service valves, 535 light liquid service valves, 15 pumps and 3080 connectors) with a total POC emission rate of 2.745 tons/yr for the entire Coker Modification Project.]The owner/operator shall submit a final count of installed pumps, compressors, valves, and flanges/connectors within 90 days after startup. The owner/operator has been permitted to install fugitive components (1,028 valves, 1,296 flanges/connectors, 14 pumps) with a total POC emission rate of 1.299 TPY. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator may have enough remaining contemporaneous emissions reduction credits (ERC's) to cover any increase in POC fugitive emissions beyond the~~

~~original projection. If not, the Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final POC fugitive equipment count. If the actual component count is less than the predicted, at the completion of the project, the total will be adjusted accordingly. Any ERC's applied by the facility in excess of the actual total fugitive emissions will be credited back to Owner/Operator prior to issuance of the permits.~~ (basis: cumulative increase, toxics)

8. To demonstrate compliance with the above conditions, the owner/operator shall maintain the following records in a District-approved log:

a. The daily record of the throughput

b. The monthly record of the throughput summarized on a consecutive 12-month basis

These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: recordkeeping)

Delayed Coker Heater # 1 and # 2 (S-1511 and S-1512)

9. The owner/operator of source S-1510 shall not exceed Ringlemann No. 1.0, for three minutes in any consecutive 60-minutes period. (basis: Regulation 6-1).

10. The owner/operator shall burn in sources S-1511 and S-1512 only natural gas or refinery fuel gas. (basis: cumulative increase, BACT)

11. The owner/operator shall not burn in sources S- 1511 and S-1512 refinery fuel gas having total reduced sulfur (TRS) greater than 100 ppmv, based on 24-hour average and 35 ppmv, based on consecutive 365 day average. (basis: BACT)

12. Except as described below, the owner/operator of sources S-1511 or S-1512 shall not exceed 7 ppmv NO_x (calculated as NO₂) corrected to 3% oxygen dry (based on a three-hour average), and 35 ppmv CO, corrected to 3% oxygen dry (based on a three-hour average). (basis: BACT)

a. During startup, shut down and malfunction periods, the owner/operator of source S-1511 or S-1512 shall not exceed 50 ppmv NO_x (calculated as NO₂) corrected to 3% oxygen dry (based on a three hour average), and 400 ppmv CO, corrected to 3% oxygen dry (based on a three hour average). Startup, shutdown or malfunction shall not exceed 144 hours during any consecutive 12-month period. (basis: cumulative increase, offsets)

b. For up to 100 days per consecutive 12 month period, during periods of reduced furnace firing (such as spalling or reduced rates due to unit shutdowns or other reasons) the owner/operator of source S-1511 or S-1512 shall not exceed 50 ppmv CO at 3% O₂ dry (based on a three hour average). (basis: basis: cumulative increase, offsets)

13. The owner/operator shall not exceed 10 ppmv ammonia at 3% O₂ dry at the outlet of A-1511 or A-1512. (basis: cumulative increase, toxics)

14. The owner/operator shall not exceed 2,014,800 MMBtu of refinery fuel gas and natural gas combined at each source (S-1511 or S-1512) in any consecutive 12-month period. (basis: cumulative increase)

15. The owner/operator shall ensure that the total sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner/operator shall use PG&E specification or equivalent pipeline quality natural gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for SO₂ when firing natural gas)

16. The owner/operator shall ensure that the total sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner/operator shall use PG&E specification or equivalent pipeline quality natural gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for PM₁₀ when firing natural gas)

17. The owner/operator of sources S-1511, S-1512, A-1511 and A-1512 shall comply with the requirement of Regulation 2-2-306 for sulfuric acid mist emissions (SAM). (basis: PSD)

18. The owner/operator of S-1511, S-1512, A-1511 and A-1512 shall ensure that the emissions from A-1511 or A-1512 shall not exceed 230 mg/dsm (0.10 gr/dscf or 1603 ppmv (dry basis)) of H₂S average over 3 hours at the inlet of S-1511 or S-1512, or 20 ppmv (dry basis) of SO₂ at the outlet of A-1511 or A-1512 except as allowed by NSPS Subpart J and Subpart A for startup, shutdown, or malfunction. (basis: NSPS 40 CFR 60, Subpart J)

19. The owner/operator of S-1511, S-1512, A-1511 and A-1512 shall install a total reduced sulfur (TRS) or SO₂ continuous monitoring and recording system to verify compliance with the requirement of Part 18. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (basis: NSPS (40 CFR 60, Subpart J))

20. The owner/operator shall abate Heater #1 and Heater #2 (S-1511 and S-1512) with Selective Catalyst Reduction systems (A-1511 and A-1512), respectively at any time that S-1511 and S-1512 are in operation, except for 144 hours each in any consecutive 12-month period during startup, shutdown and malfunction. (basis: cumulative increase)

21. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of nitrogen oxides (calculated as NO₂), in ppmv units, in the combustion exhaust from A-1511 and A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

22. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of carbon monoxide (CO), in ppmv units, in the combustion exhaust from A-1511 and A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times

when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

23. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of oxygen in the combustion exhaust from A-1511 and A-1512. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

24. The owner/operator shall install, operate and maintain a District approved fuel flow meter that measures the volume of fuel throughput to S-1511 and S-1512 in units of standard cubic feet. (basis: cumulative increase)

25. The owner/operator shall install, operate and maintain a District approved calorimeter that measures the heating value when refinery fuel gas is fired at S-1511 and S-1512. (basis: BACT, cumulative increase, offsets, toxics)

26. The owner/operator shall conduct District approved initial source tests on Heaters S-1511 and S-1512 to demonstrate compliance with the NO_x, CO, TRS, NH₃, PM₁₀ and SAM levels in Parts 11, 12, 13, and 17. For purposes of SAM, the applicant shall also test for SO₃ and ammonium sulfates. Source tests conducted while firing natural gas shall demonstrate compliance with the NO_x, CO, NH₃ and PM₁₀ levels. Source tests conducted while firing refinery fuel gas shall demonstrate compliance with the NO_x, CO, TRS, NH₃, PM₁₀ and SAM levels. The required source tests are as follows:

a. ~~Deleted. (The initial source test was completed from August 12 through August 14, 2008) Heaters S-1511 and S-1512 firing natural gas only at as found conditions within 120 days of initial startup. If Heater S-1511 or S-1512 is operating at 80% or more of maximum firing rate during this source test, then the requirements for source test (b) shall have been met for that heater.~~

b. ~~Deleted. (The initial source test for part a. was at firing rates above 80% of maximum firing) Heater S-1511 and S-1512 firing natural gas only at 80% or more of maximum firing rate (within 60 days after 80% or more of maximum firing rate is first reached on natural gas).~~

c. Heaters S-1511 and S-1512 firing refinery fuel gas only at as-found conditions (within 60 days after the refinery fuel gas is first used). If Heater S-1511 or S-1512 is operating at 80% or more of maximum firing rate during this source test, then the requirements for source test (d) shall have been met for that heater.

d. Heaters S-1511 and S-1512 firing refinery fuel gas only (within 60 days after 80% or more of maximum firing rate is first reached on refinery fuel gas).

The test results from source test (a) shall be forwarded to the District within 45 days of completion of the field tests, but no later than 150 days of initial startup. Subsequent test results shall be forwarded to the District within 45 days of completion of the field tests. The owner/operator shall notify the District of the following events:

- i. The actual date that each Heater first fires at 80% of maximum firing rate on natural gas within 15 days after such date.
- ii. The actual date that the Heaters first fire refinery fuel gas within 15 days after such date.
- iii. The actual date that each Heater first fires at 80% of maximum firing rate on refinery fuel gas within 15 days after such date.

(basis: compliance demonstration, PSD avoidance)

The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 45 days of conducting the tests except as otherwise required above. (basis: source test compliance verification)

27. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made (basis: Regulation 2-6-501)

28. When burning refinery fuel gas in sources S- 1511 and S-1512, the owner/operator shall record the consecutive 3-hour average total reduced sulfur content of the refinery fuel gas. On an annual basis, the owner/operator shall report: (a) the daily fuel consumption, (b) hourly total reduced sulfur content (as averaged over 24 consecutive hours) and (c) annual average reduced sulfur content. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the calendar year. (basis: BACT, offsets, cumulative increase)

Coker Screen/Crusher (S-1513) and Conveyors & Dewatering Pad

29. The owner/operator of S-1513 shall not exceed 1,277,500 wet tons of coke in any consecutive 12-month period. (basis: cumulative increase, BACT)

30. The owner/operator of S-1513 shall keep the moisture of the coke product to 5% by weight or more. (basis: cumulative increase)

31. The owner/operator of S-1513 shall not exceed Ringelmann No. 1.0, or 20% opacity visible emissions, for three minutes in any consecutive 60 minute period. (basis: Regulation 6-1)

32. The owner/operator shall use a water spray abatement system with chemical suppressant, if necessary, and take other control measures, as necessary, to maintain compliance with Regulation 6-1. (basis: Regulation 6-1, BACT)

33. The owner/operator shall completely enclose all coke conveyors downstream of the crusher and use water sprays to minimize particulate emissions from crushing operations. (basis: BACT)

34. The owner/operator shall inspect S-1513 for visible emissions no less than once per day when the equipment is in operation. If there are visible emissions, the owner/operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved log, the owner/operator shall record the visible emission observation, and when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each day that S-1513 is not in operation for the entire day and when there is no petroleum coke stored or processed at S-1513, the owner/operator need not complete this inspection for S-1513. (basis: Regulation 2-1-403, Regulation 2-6-503).

35. The owner/operator shall use water sprays, as necessary, to minimize particulate emissions from the surfaces of the coke piles on the Coke Dewatering Pad. If particulate emissions from the Coke Dewatering Pad result in 3 or more visible emission violations within a six month period, or two public nuisance violations within a 5 year period, the owner/operator shall install additional controls, as approved by the District, which may include one or more of the following:

- a. Additional water sprays;
 - b. Chemical suppressant in water spray system;
 - c. Additional/improved enclosures;
 - d. Wind screens; or e. Equivalent, as approved by the District.
- (basis: BACT)

~~36. Deleted. (Laboratory analysis completed May 22, 2008. Moisture content was over the 5% by weight limit of Part 30) Within 45 days of startup, the owner/operator shall test the moisture content of the wet coke at S 1513 to demonstrate compliance with Part 31. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 45 days after the test. (basis: cumulative increase)~~

37. To demonstrate compliance with the above Parts, the owner/operator shall maintain the monthly records, and the consecutive 12-month summary of coke (wet) produced in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: recordkeeping)

Coker Silos (S-1514 and S-1515 abated by A-1514 and A-1515, respectively) and (S-659 and S-660 Storage Tanks, both abated by A-9 Electrostatic Precipitator)

38. The owner/operator shall not operate S-659, S-660, S-1514, S-1515, A-9, A-1514, and A-1515 unless the visible particulate emissions from the listed equipment are less than or equal to Ringelmann Number 1.0 except for three minutes in any consecutive 60-minute period, or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

39. The owner/operator shall not operate S-1514 and S-1515 unless all particulate emissions from the silos are vented to A-1514 and A-1515, respectively. The owner/operator shall not operate S-659 and S-660 unless all particulate emissions from the storage tanks are vented to A-9. Particulate emissions from A-9 Precipitator, A-1514 and A-1515 baghouses shall not exceed 0.01 grains/dscf each. (basis: cumulative increase)

40. The owner/operator shall install, maintain, and operate an approved bag failure warning device such as manometer or equivalent on A-1514 and A-1515. The Owner/Operator shall install an approved ESP failure warning device on A-9. (Basis: Cum Inc)

41. The owner/operator of each abatement device A-1514 or A-1515 shall not exceed 4,200 scfm of exhaust air flow rate without District approval. The owner/operator of abatement device A-9 shall not exceed 550 scfm of exhaust air flow rate without District approval (basis: cumulative increase)

42. The owner/operator of S-659, S-660, S-1514 and S-1515 shall record and keep the following records on site and make the log available for District inspection for a minimum period of 5 years from the date on which a record was made. (basis: cumulative increase)
a. Total monthly hours of operation, summarized on a consecutive 12-month period.

Coker Truck Loadout S-1516

43. The owner/operator of S-1516 shall not exceed Ringelmann Number 1.0 for three minutes in any consecutive 60-minute period or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

44. The owner/operator of S-1516 shall not exceed 1,277,500 tons of wet coke in any consecutive 12 month period. (basis: cumulative increase, BACT)

45. The owner/operator shall only conduct material truck loading in an enclosed structure that is either equipped with a water spray system to be used as needed to prevent visible dust emissions or vented to permitted air pollution control equipment that is operated during loading activities. The ends of the structure shall have overlapping flaps that reduce the opening to no greater than 11 feet high by 10 feet wide, or other equally effective devices as approved by the APCO. (basis: BACT)

46. The owner/operator shall load the trucks so that the level of coke is not higher than the top of the truck trailer. After loading onto trucks, the coke shall be completely covered with tarpaulin or other similar material, to minimize particulate spillage and entrainment during transit. If a slot-top type cover is used, either the material contained in the trailer is moist material, or a chemical stabilizer is applied to the surface of the material in sufficient amounts and concentration so as to prevent fugitive dust emissions during transport. (basis: BACT)

47. Before leaving the coke loading area, the owner/operator shall pass the trucks through a water wash system to remove coke from the truck and trailer tires, wheels and undercarriage, in order to minimize the tracking of coke onto the roadway. (basis: BACT)

48. The owner/operator shall sweep accumulated mud, dirt, or coke from the coke truck route in the refinery at least once a day except during periods of rain and equipment maintenance, and whenever there is visible accumulation. Dry rotary brushes shall not be used except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Blower devices shall not be used. (basis: BACT)

49. In order to demonstrate compliance with the above Parts, the owner/operator of S-1516 shall maintain the daily records, monthly records and the consecutive 12-month summary of coke (wet) loaded into trucks in District approved logs. These records shall be kept on site and made available for District inspection for a minimum period of 5 years from the date on which a record was made. (basis: cumulative increase)

Flare S-1517

50. The owner/operator of S-1517 shall not exceed Ringelmann Number 1.0 for three minutes in any consecutive 60-minutes period or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

51. The owner/operator of S-1517 shall use steam in the flare to minimize smoking. (basis: BACT)

52. The owner/operator of S-1517 shall have a hydrocarbon destruction efficiency of at least 98.5 wt.% POC on a mass basis: (basis: BACT)

53. The owner/operator of S-1517 shall not exceed 1,314,000 standard cubic feet of natural gas for flare pilots in any consecutive 12-month period. (basis: cumulative increase)

54. The owner/operator shall comply with the requirements of 40 CFR 60, Subpart J. (basis: NSPS 40 CFR 60, Subpart J)

55. The owner/operator of S-1517 shall install H₂S continuous monitoring and recording system to verify compliance with the requirement of Regulation 12-11. The owner/operator shall

maintain the equipment in accordance with manufacturer's recommendations. (basis: Regulation 12, Rule 11)

56. The owner/operator of S-1517 shall fire only natural gas at all flare pilots. (basis: cumulative increase)

57. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. The following records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: Regulation 2-6-501)

a. The continuous H₂S concentration at source S-1517.

b. Total daily flow rate of the gas through the flare, summarized in a consecutive 12-month period.

Contemporaneous Emissions reduction credit

58. ~~Deleted. (Sources The owner/operator of sources S-806, S-808, S-836, S-837, S-838, S-903, S-923, S-924 and S-925 were shutdown and removed from the Owner/Operator's permit via Application 18739.) shall completely shutdown the equipment no later than 90 days after startup of the delayed coker (S-1510 through S-1517, A-1511, A-1512, A-1514, and A-1515). The owner/operator shall enter into the record log the shut down date of each source. (Basis: offsets)~~

Condition 23258

~~COND# 23258~~

Conditions for Source S-1038, Benzene Saturation Unit

Application #14894 (2006), BSU Throughput Increase, Plant # 14628 – Tesoro Refinery.

~~S-1038 Benzene Saturation Unit~~

1. The Owner/Operator shall ensure that the Benzene Saturation Unit (S-1038) does not process more than 5,475,000 barrels of feed at S-1038 during any 12 consecutive month period. (basis: cumulative increase)

2. ~~Deleted. Redundant with Regulation 8-18. Components were incorporated into the facility LDAR program on project startup. The owner/operator of all new and modified equipment associated with S-1038, shall inspect and maintain all new valves, pumps and~~

~~flanges/connectors associated with this project according to District Regulation 8-18. (basis: Regulation 8-18)~~

3. ~~Deleted. The Owner/Operator submitted a final component count and has been permitted to install fugitive components (24 valves, 19 flanges/connectors, 0 pumps, 0 PSD, 0 compressor) with a total POC emission rate of 40.6 lb/yr.~~ The Owner/Operator of all new and modified equipment associated with S-1038, Benzene Saturation Unit, shall ensure the POC emissions do not exceed 0.149 lb/day, based on a 365-day average emission rate, as calculated in accordance with District procedures. The owner/operator of S-1038, shall submit a final process flow diagram and a revised pump, compressor, valve, and flange count within 60 days of the start-up of S-1038 in order to confirm compliance with this permit condition. If fugitive emissions from this source exceed 0.149 lb/day, then the District may recalculate the cumulative emissions increase attributed to this permit application, and adjust accordingly the refinery emissions cap limits specified in this Condition, before the issuance of the permit to operate. (basis: cumulative increase)

4. ~~Deleted. Redundant with Regulation 8-28. All pressure relief valves have been tied into a closed system so there are no leaks to atmosphere.~~ The Owner/Operator of all new hydrocarbon vapor pressure relief valves installed in hydrocarbon service shall vent POC emissions to the refinery flare gas recovery system or an abatement device with a capture/destruction efficiency of 98 wt% POC, or more, approved for this use in advance by the District. (basis: Regulation 8-28)

5. The Owner/Operator shall maintain a District-approved file containing all measurements, and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to, the daily throughput of feed processed by S-1038 summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase)

Condition 23263

Conditions for Source S-896, External Floating Roof Tank A-896
Application #14919,
Plant # 14628 - Tesoro Refinery.
Modified by Application 16822, March 2008

1. The owner/operator of S-896 shall not exceed 2,500,000 barrels of materials, including Gasoline, Heavy Straight Run Naphtha, Jet Naphtha, Reformate, General Refinery Oils, and Slop Oils, during any consecutive twelve-month period. (Basis: Cumulative Increase)

2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:

a. Total POC emissions from S-896 do not exceed 4,943 pounds in any consecutive twelve month period; and

b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
(Basis: Cumulative Increase, Toxics, Offsets)

3.To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:

a.Quantities of each type of liquid stored at this source on a monthly basis.

b.If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;

c.Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Cumulative Increase; Toxics)

4.The owner/operator of S-896 shall equip the source with a liquid mounted primary seal and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

<u>Fitting Type:</u>	<u>Control Technique</u>
<u>Access hatch:</u>	<u>Bolted cover, gasketed</u>
<u>Guide pole/well:</u>	<u>Unslotted guide pole, gasketed sliding cover; or slotted with controls per API 2517 Addendum (See Note 1)</u>
<u>Gauge float well:</u>	<u>Bolted cover, gasketed</u>
<u>Gauge hatch/sample well:</u>	<u>Weighted mechanical actuation, gasketed</u>
<u>Vacuum breaker:</u>	<u>Weighted mechanical actuation, gasketed</u>
<u>Roof drain:</u>	<u>Roof drain does not drain water into product</u>
<u>Roof leg:</u>	<u>Fixed; or adjustable with vapor seal boot, or gasket between roof leg and leg sleeve</u>
<u>Rim vent:</u>	<u>Weighted mechanical actuation, gasketed</u>

NOTE 1: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

a. Sliding cover;

b. Well gasket;

c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or District approved equivalent

d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers (Basis: BACT)

NOTE 2: This part 4 Authority to Construct design condition will be deleted once the

tank design is confirmed to comply with BACT.:

Condition 23486

~~COND# 23486~~-----

Application 15429 (April, 2007).

Revised by Application 19326 (February, 2009)

S-1508 Tank A906 and S-1509 Tank A907, Avon Wharf Slop Oil Tanks: Each tank: 4' W X 12' L X 3.5', 1,250 gallon capacity

1) The total combined net throughput of S-1508 Tank A906 and S-1509 Tank A907 ~~of S-1508~~ shall not exceed 1,689,000 barrels in any consecutive 12-month period. The owner/operator shall use a radar-monitoring device to measure the height of the tank. The owner/operator shall use the change in height of liquid in the tank to calculate throughput. (basis: Cumulative Increase)

2) Materials collected in S-1508 and S-1509 shall be limited to the following:

a. Water runoff, slop oil, or recovered oil with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be collected in S-1508 and S-1509, provided that both of the following criteria are met:

1. true vapor pressure must be less than 11 psia

2. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase)

3) Deleted. (Final project fugitive component count provided July 11, 2007. Final count did not cause fugitive emissions to exceed the emissions estimated in the project application.)

4) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids collected and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.

All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (basis: Cumulative Increase, Regulation 1-441)

Condition #23562

Application 15949 (May 2007): Add EPA Consent Decree requirements (Case No. SA-05-CA-0569-RF: United States of America v. Valero Refining Company – California, et. al.).

Modified by App. 18739 (Nov 2008) Removal of S923, S924 & S925

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Application 19300 (December 2008) Remove S904 Backup CO Boiler Service

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

S902 FCCU Startup Heater

S904 No. 6 Boiler

~~S905 No. 6 Boiler Startup Heater~~

S913 No. 2 Feed Prep Heater (F13)

S915 Platformer Intermediate Heater (F15)

S916 No. 1 HDS Heater (F16)

~~S917 No. 1 HDS Prefract Reboiler (F17)~~

~~S919 No. 2 HDS Depent Reboiler (F19)~~

S920 No. 2 HDS Charge Heater (F20)

S921 No. 2 HDS Charge Heater (F21)

S922 No. 5 Gas Debutanizer Reboiler

~~S923 Coker Auxiliary Startup Burner~~

~~S924 Coker Anti-coking Superheater (F24)~~

~~S925 Coker Attriting Superheater (F25)~~

S926 No. 2 Reformer Splitter Reboiler (F26)

S927 No. 2 Reformer Heat/Reheating (F27)

S928 HDN Reactor A Heater (F28)

S929 HDN Reactor B Heater (F29)

S930 HDN Reactor C Heater (F30)

S931 Hydrocracker Reactor 1 Heater (F31)

S932 Hydrocracker Reactor 2 Heater (F32)

S933 Hydrocracker Reactor 3 Heater (F33)

S934 Hydrocracker Stabilizer Reboiler (F34)

S935 Hydrocracker Splitter Reboiler (F35)

S937 Hydrogen Plant Heater (F37)

~~S938 HDN Prefractionator Heater (F38)~~

~~S939 Propane Product Heater (F50)~~

S950 50 Unit Crude Heater (F50)

4.S1412 Sulfuric Acid Plant Startup Heater

~~S1470 No. 3 Crude Vacuum Distillation Heater (F71)~~

Effective 12/31/2010

S908 No. 3 Crude Heater (F8)

S909 No. 1 Feed Prep Heater (F9)

S912 No. 1 Feed Prep Heater (F12)

1. The heaters and boilers listed above shall be “affected facilities” under 40 CFR 60 Subpart J as fuel gas combustion devices. Except as allowed in this permit condition, the owner/operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for these fuel gas combustion devices, except during periods of startup, shutdown, or malfunction of the affected facilities or the malfunction of the associated control equipment, if any, provided that during startup, shutdown, or malfunction, the owner/operator shall, to the extent practicable, maintain and operate the affected facilities including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, 122.)
2. The owner/operator is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR 60.7, with respect to the provisions of 40 CFR, Subparts A and J, as such requirements apply to the fuel gas combustion devices listed in this permit condition. (Basis: EPA Consent Decree paragraph 120.)
3. The owner/operator shall use either continuous emissions monitoring systems (CEMS) or an approved alternative monitoring plan (AMP) to demonstrate compliance with the NSPS Subpart J emission limits for the fuel gas combustion devices listed in this permit condition. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraph 121)
4. The owner/operator shall conduct the accuracy tests listed below on the CEMS used to comply with Part 3 unless that CEMS is otherwise subject to the requirements of NSPS Subparts A and J. These accuracy tests are allowed in lieu of the requirements of Part 60, Appendix F 5.1.1, 5.1.3 and 5.1.4.
 - a. Conduct either a RAA or a RATA on each CEMS at least once every three years.
 - b. Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.
 - c. Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA.____(Basis: EPA Consent Decree paragraph 121.)

Condition 2373915

Application # 16125

Source S-1521 External Floating Roof Tank A-904

Gasoline and Gasoline Blend Stock

1. The total net throughput at Tank 904 (S-1521) shall not exceed 10,000,000 barrels of gasoline and gasoline blendstocks in any consecutive 12-month period. (Basis: Cumulative Increase, Toxics)
2. Only materials with a true vapor pressure less than 7.3 psia shall be stored in S-1521. (Basis: Cumulative Increase, Toxics)
3. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-1521 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 five years from the date that the record was made.
 - a. Identification of all materials stored and the dates that the materials were stored.
 - b. True Vapor Pressure of each material stored.
 - c. The total daily throughput of each material stored, summarized on a monthly basis.
 - d. The rolling 12-month throughput for all materials stored in S-1521. (basis: cumulative increase, toxics)

Condition 23811

Emergency Engines S-1518 and S-1519
Application 14917, September 2006.

Modified by Application 16495, November 2007.

Modified by Application 19330, February 2009.

Plant 14628 (B2758) Emergency Diesel Engines S-1518 and S-1519
Plant 14629 (B2759) Emergency Diesel Engines S-56 and S-57

1. Operating for reliability-related activities is limited to 50 hours per year per engine.

[Basis: "Stationary Diesel Engine ATCM" ~~section 93115, title 17, CA Code of Regulations, Title 17, Subsection (93115.6(b)(3)(A)(2)(b)e)(2)(A)(3) or (e)(2)(B)(3)~~]

2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating hours while mitigating emergency conditions or while emission

testing to show compliance with District, state or Federal emission limits is not limited.

[Basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM", ~~section 93115, title 17, CA Code of Regulations, Title 17, Ssubsection 93115.6(b)(3)(A)(2)(b)(e)(2)(A)(3) or (e)(2)(B)(3)}~~]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: ~~Regulation 9-8-530, "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Title 17, Ssubsection 93115.10(e)(1)(e)(4)(G)(1)}~~]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).

[Basis: Regulation 9-8-530, ~~2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)~~ ~~section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or Regulation 2-6-501)}~~]

~~Condition 24131~~

~~Application 17474/17475 (2008)~~

~~S-1522 Tank A-927, Naphtha, Fixed Roof Tank, 5502 thousand gallons~~

~~The owner/operator of S-1522 shall not exceed 1,726,000 barrels during any consecutive twelve-month period for the following materials:~~

~~Naphtha~~

~~Disulfide Oil~~

~~Wash Water~~

~~Off Spec Gasoline~~

~~The owner/operator shall a radar monitoring device to measure the height of the tank liquid, and shall use the change in liquid height to calculate throughput.~~

~~(basis: Cumulative Increase)~~

~~Notwithstanding any provision of District regulations allowing for the malfunction/breakdown of the No. 1 Gas Plant vapor recovery compressors, the owner/operator shall ensure that S1522 fixed roof tank (excluding the pressure/vacuum relief valve vent) is abated at all times by A-14 Vapor Recovery System with a destruction efficiency of 99.9% by weight.
(basis: Cumulative Increase; Toxics)~~

~~To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
Quantities of each type of liquid stored at this source on a monthly basis.
Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.
All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.
(basis: Recordkeeping, Cumulative Increase; Toxics)~~

~~Not more than 30 days after the start-up of S-1522, the owner/operator shall provide the District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components:
4 valves in gas service
25 valves in liquid service
2 pumps
0 PRV in gas service
0 PRVs in liquid service
91 connectors/flanges
(basis: Cumulative Increase, offsets)~~

~~If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator.
(basis: offsets)~~

~~In accordance with the provisions of Regulation 8-18, the owner/operator shall integrate all new fugitive equipment in organic service installed as part of the S-1522 project into the facility fugitive equipment monitoring and repair program.
(basis: BACT, Regulation 8-18)~~

Condition 24171

Application 18835/18832 (2008) New Gasoline Station
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

1. The Phase 1 equipment shall be installed in accordance with California Air Resources Board (CARB) Executive Order G-70-97A and G-70-102. The nominal inside diameter of the vapor side of the two-pont system shall be no less than three inches anywhere between the storage tank and the vapor poppet.
2. The tank and the Phase II vapor recovery equipment shall be installed in accordance with CARB Executive Order G-70-194 and G-70-52AM.
3. Within ten (10) days of start-up, a Leak Test on all new and/or modified tank systems shall be performed in accordance with the District's Manual of Procedures Source Test Procedure ST-38. If the tank size is 500 gallons or less, the test shall be performed on an empty tank.
4. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087 or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco, CA 94109).

Condition 24172

Application 18835/18832 (2008) New Gasoline Station
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

Pursuant to BAAQMD Toxic Section policy, this facility's annual gasoline throughput shall not exceed 440,000 gallons in any consecutive 12 month period. (basis: District Toxic Risk Management Policy)

Condition 24321

Application 18949, May 2009
Flaring Prevention Measure
Hydrocracker Stage 1 Stripper Overhead Reroute to No 5 Gas Plant

S1007 Hydrocracker Unit
S1005 No 1 Hydrogen Plant
S1526 No 5 Gas Plant

1. The Owner/Operator shall operate S-1005 only when the hydrogen production does not exceed 93 MMSCF for each day or 31,025 MMSCF for each year. (Basis: Cumulative Increase)
2. The Owner/Operator shall maintain daily hydrogen productions records for S1005 to demonstrate compliance with Part 1 above. (Basis: Recordkeeping)

Condition 24323

Application 18752 (May 2009)
No. 50 Crude Unit Blowdown Tower S-834 Replacement Project
S-1001 No. 50 Crude Unit
A-1524 No. 50 Crude Unit Vapor Recovery System
S-1524 No. 50 Crude Unit Flare

1. Notwithstanding any provision of District regulations allowing for the malfunction of A-1524 due to a valid breakdown, the Owner/Operator shall operate S-1001 50 Crude Unit only when A-1524 Vapor Recovery System is in operation. (~~18753~~Basis: Cumulative Increase, Consent Decree §235(a))
2. The Owner/Operator shall only operate S-1524 50 Crude Unit Flare during upsets, malfunctions or emergencies. (Basis: BACT, Cumulative Increase)
3. The Owner/Operator of S-1524 50 Crude Unit Flare shall comply with all applicable requirements of NSPS Subpart J. (Basis: NSPS)
4. The Owner/Operator of S-1524 50 Crude Unit Flare shall comply with NSPS Subpart A, 40 CFR 60.18. (Basis: NSPS)
5. Deleted. (FMP Update submitted July 31, 2009.)
6. The owner/operator of S-1524 shall use steam assisted, staged combustion in the flare to minimize smoking. (Basis: BACT)
7. The owner/operator of S-1524 shall have a hydrocarbon destruction efficiency of at least 98% POC on a mass basis: (basis: BACT)
8. The owner/operator of S-1524 shall not exceed 3,942,000 standard cubic feet of natural gas for flare pilots in any consecutive 12-month period. The owner/operator shall fire only natural gas at all flare pilots. (Basis: cumulative increase)

9. The owner/operator of S-1524 shall install H₂S continuous vent gas monitoring and recording system to verify compliance with the requirement of Regulation 12-11. The monitoring system shall be designed and operated such that gas samples are taken at a location that ensures accurate vent gas composition. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (Basis: Regulation 12-11-501 and 12-11-506)
10. The owner/operator of S-1524 shall not exceed 3,767,000 standard cubic feet of natural gas for the flare purge in any consecutive 12-month period. The Owner/operator shall use only natural gas for the flare purge gas, except during periods of natural gas curtailment, when refinery fuel gas or nitrogen may be used. (Basis: cumulative increase)
11. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. The following records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: Regulation 2-6-501)
 - a. The continuous vent gas H₂S concentration at source S-1524.
 - b. Total daily flow rate of the gas through the flare, summarized in a consecutive 12-month period.
 - c. Total daily flow rate of the pilot gas to the flare, summarized in a consecutive 12-month period
 - d. Total daily flow rate of the purge gas through the flare, including the type of gas and the reason natural gas was not used, when applicable, summarized in a consecutive 12-month period

Condition 24324

Application 17752, July 2009
Consent Decree Requirements for
S-854 East Air Flare
S-992 Emergency Flare
S-1012 West Air Flare
S-1517 Coker Flare

Note: The 'Consent Decree' referenced in this condition is:
Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company –
California, et al in the United States District Court, Western District of Texas, San Antonio
Division, Lodged 6/15/2005, Entered 11/23/2005.

1. The Owner/Operator shall operate Flares S-854, S-992, S-1012 and S1517 only when in compliance with NSPS. (Basis: Consent Decree paragraphs 231 and 238).
2. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 shall comply with NSPS Subpart J by operating and maintaining a Flare Gas Recovery System to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. 60.105(a)(4) and 60.7 (Basis: Consent Decree paragraphs 233 and 235(a))
3. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 will take all reasonable measures to minimize emissions while periodic maintenance is being performed on the Flare Gas Recovery System. (Basis: Consent Decree paragraph 263)
4. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 may bypass the Flare Gas Recovery System in the event of an emergency, including unscheduled maintenance of such system in order to ensure continued safe operation of refinery processes. (Basis: Consent Decree paragraph 264)
5. The combustion in a Flaring Device of process upset gases or fuel gas that is released to the Flaring Device as a result of relief valve leakage or other emergency malfunctions is exempt from the requirement to comply with 40 C.F.R. 60.104(a)(1). (Basis: Consent Decree paragraph 241)

Condition 24491

Application 20977 (November 2009)

S-1550 Backup Steam Boiler #1, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1550 SCR
S-1551 Backup Steam Boiler #2, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1551 SCR

1. The owner/operator shall ensure that S-1550 and S-1551 are fired exclusively on natural gas at a rate not to exceed 99 MMBtu/hr each. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)
2. The owner/operator shall ensure that S-1550 and S-1551 are on site at the refinery for no more than 6 consecutive months per 12 consecutive month period. The 6-month period for each boiler begins upon the initial firing of the boiler. (Basis: BACT)
3. The owner/operator shall ensure each boiler S-1550 and S-1551 is not operated for more than 2160 hours in any consecutive 12-month period. (Basis: Cumulative Increase, Offsets, Toxics)
4. Except for a time period not to exceed 24 hours per boiler startup or shutdown, the owner/operator shall ensure that S-1550 and S-1551 are only operated when abated by SCRs A-1550 and A-1551, respectively. The total hours that S-1550 or S-1551 is operated without SCR abatement shall not exceed 192 hours per consecutive 12-month period. (Basis: Cumulative Increase, Offsets, Toxics)
5. The owner/operator shall ensure that S-1550 and S-1551 are not operated unless they are each equipped with a District approved, fuel flow meter that measures the total volume of fuel throughput to S-1550 and S-1551 in units of standard cubic feet. (Basis: Cumulative Increase, Offsets, Toxics)
6. The owner/operator shall ensure that the total fuel fired in S-1550 and S-1551 shall not exceed 4,277,000 therms in any 12 consecutive month period. (Basis: Cumulative Increase, Offsets, Toxics)
7. Except for periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550 or S-1551 unless NO_x emissions are less than 7 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets, BACT)
8. During for periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550 or S-1551 unless NO_x emissions are less than 30 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets)
9. The owner operator shall not operate S-1550 or S-1551 unless CO emissions are less than 50 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets, BACT)
10. Within 10 days of the first fire date, the owner/operator shall conduct a District approved source test of each S-1550 and S-1551. The District approved source test shall measure the emission rates of NO_x, POC, SO₂, and PM₁₀, from S-1550 and S-1551 while it is operated at not less than 80 MMBtu/hr. The owner/operator shall ensure that within 45 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #20977 and plant #14628) are received by the District. One copy shall be sent to Source Testing and the other shall be sent to the

Engineering Division. This District approved source test shall be repeated within 5 days of each subsequent boiler startup (or any operation without SCR abatement) during the 6-month period of boiler operation. (Basis: Cumulative Increase, Offsets, BACT)

11. In a District approved log, the owner/operator shall record the manufacturer, make, model, and maximum rated firing rate of each boiler used as S-1550 and S-1551, and the following information for each calendar day that either S-1550 or S-1551 fires fuel. The District approved log(s) shall be retained by the owner/operator on site for at least 5 years from the date of the last entry and made available to District staff upon request. (Basis: Cumulative Increase, Offsets, Toxics, BACT)

- a. The date and hours that each S-1550 and S-1551 fire fuel.
- b. The amount of fuel fired at each S-1550 and S-1551.
- c. The hours that each S-1550 and S-1551 operate without abatement by a fully functioning SCR.
- d. The amount of steam produced at each boiler S-1550 and S-1551.

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

SECTION A SITEWIDE (REFINERY AND AMORCO)

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements
 FACILITY #B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Benzene</u>	<u>40 CFR 61.342(e)(2)(i) 63.647(a)</u>	<u>Y</u>		<u>6.0 Mg/yr (6.6 tons/yr)</u> <u>[Facility wide limit – combined with Facility B2759]</u>	<u>40 CFR 61.356(b)(4)</u>	<u>N</u>	<u>Records</u>
<u>CO</u>	<u>BAAQMD Condition 8077, Part B2A Appendix A.4</u>	<u>Y</u>		<u>573 tons/year</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>CO</u>	<u>BAAQMD Condition 8077, Part B2B Appendix A.4</u>	<u>Y</u>		<u>57 tons/month</u> <u>Maximum emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	<u>BAAQMD Condition 8077, Part B2C Appendix A.4</u>	Y		<u>49.1 tons/month compensatory emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
CO	<u>BAAQMD Condition 8077, Part B2D Appendix A.4</u>	Y		<u>Allowable accumulated emissions at end of any month 573 tons/year prorated by elapsed months + 9.3 tons</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
NOx	<u>BAAQMD Condition 8077, Part B2A Appendix A.2</u>	Y		<u>2867 tons/year</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
NOx	<u>BAAQMD Condition 8077, Part B2B Appendix A.2</u>	Y		<u>339.67 tons/month Maximum emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
NOx	<u>BAAQMD Condition 8077, Part B2D Appendix A.2</u>	Y		<u>Allowable accumulated emissions at end of any month 2867 tons/year prorated by elapsed months + 69 tons</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
POC	<u>BAAQMD 8-8-303</u>	Y		<u>Vapor tight gauging and sampling devices</u>	<u>BAAQMD 8-8-504 8-8-603</u>	N	<u>Portable hydrocarbon detector</u>
POC	<u>BAAQMD 8-8-304</u>	<u>NY</u>		<u>Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]</u>	<u>BAAQMD 8-8-602</u>	N	<u>Source test or EPA Method 25 or 25A</u>
POC	<u>SIP 8-8-304</u>	Y		<u>Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]</u>	<u>SIP 8-8-602</u>	N	<u>Source test or EPA Method 25 or 25A</u>

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 61.343 (a)(1)(i)(B)	Y		Tanks openings closed and properly gasketed	40 CFR 61.343(c)	P/Q	Visual Inspection
POC	40 CFR 61.343(d)	Y		Tank broken seals & gaskets repaired within 45 days	40 CFR 61.356(g)	P/Q	Reports
POC	40 CFR 61.345(a)(1)(i)	Y		Container openings leak ≤ 500 ppm	40 CFR 61.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.345(b)	Y		Containers closed & properly gasketed	40 CFR 61.345(b)	P/Q	Visual Inspection
POC	40 CFR 61.345(c)	Y		Container broken seals & gaskets repaired within 15 days	40 CFR 61.356(g)	P/Q	Reports
Hydrocarbons	BAAQMD Condition 8077, Part B2A Appendix A.1	Y		221.7 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2B Appendix A.1	Y		77 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2D Appendix A.1	Y		Allowable accumulated emissions at end of any month 221.7 tons/year prorated by elapsed months + 35 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
VOC	BAAQMD 8-5-328.1	N		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1 8-5-605.2	P/E	Method 21 Inspection At least four consecutive measurements performed at intervals no shorter than 15 minutes each.

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>SIP</u> <u>8-5-328.1.2</u>	<u>Y</u>		<u>< 10,000 ppm organic concentration (Degassing)</u>	<u>BAAQMD</u> <u>8-5-328.1.2</u> <u>8-5-605</u>	<u>P/E</u>	<u>Method 21 Inspection</u>
VOC	<u>BAAQMD</u> <u>8-5-328.1</u>	<u>N</u>		<u>90% abatement efficiency (tank degassing)</u>	<u>BAAQMD</u> <u>8-5-502.2</u> <u>8-5-603</u>	<u>P/ Within 12 months prior to abatement use or during operation</u>	<u>Source Test</u>
VOC	<u>SIP</u> <u>8-5-328.1.2</u>	<u>N</u>		<u>90% abatement efficiency (tank degassing)</u>	<u>SIP</u> <u>8-5-502</u> <u>8-5-603.2</u>	<u>P/ A</u>	<u>Source Test</u>
VOC	<u>BAAQMD</u> <u>8-5-331</u>	<u>N</u>		<u>90% abatement efficiency (tank cleaning)</u>	<u>BAAQMD</u> <u>8-5-502.2</u> <u>8-5-603</u>	<u>P/ A</u>	<u>Source Test</u>
VOC	<u>BAAQMD</u> <u>8-5-332.1</u>	<u>N</u>		<u>No liquid leakage [Sludge containers]</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VOC	<u>BAAQMD</u> <u>8-5-332.2</u>	<u>N</u>		<u>Gaps <=1.3 cm (1/2 inch) [Sludge containers]</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VOC	<u>BAAQMD</u> <u>8-10-301</u>	<u>N</u>		<u>Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)</u>	<u>BAAQMD</u> <u>8-10-401</u> <u>8-10-501</u> <u>8-10-502</u>	<u>P/E</u>	<u>Records</u>
<u>V</u> POC	<u>SIP</u> BAAQMD 8-10-301	<u>Y</u>		<u>Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)</u>	<u>SIP</u> 8-10-401.2 (SIP) and BAAQMD 8-10-501 & 8-1-502 (non-SIP)	<u>P/E</u>	<u>Records</u>

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-10-302.1 8-10-302.2	N		< 10,000 ppm organic concentration [A refinery vessel may exceed this limit provided total number of such vessels does not exceed 10% of total vessel population over 5-consecutive year period and total mass organic compound emissions are less than 15 lb/day]	BAAQMD 8-10-501 8-10-502 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 Inspection and Records
Ambient SO ₂	BAAQMD 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 hours	BAAQMD 9-1-501 9-1-604	C	Area Monitoring
Ambient SO₂ [For S802]	BAAQMD 9-1-310.3 9-1-110.2 9-1-301 [For S802]	Y		Ground level SO₂ concentration (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	BAAQMD 9-1-110.1 1-510	C	Area Monitoring
Ambient H ₂ S	BAAQMD 9-2-301	Y		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501 9-2-602	C	Area Monitoring
H₂S NH₃	BAAQMD 9-1-313.2	N		Refinery wide: 95% H₂S removal (refinery fuel gas) 95% H₂S removal (process water streams) 95% NH₃ removal (process water streams)	None	N	N/A
H₂S NH₃	SIP 9-1-313.2	Y		Refinery wide: 95% H₂S removal (refinery fuel gas) 95% H₂S removal (process water streams) 95% NH₃ removal (process water streams)	None	N	N/A

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	<u>40 CFR 61.342(b)</u>	<u>Y</u>		<u>Monitoring</u>	<u>40 CFR 61.354</u>	<u>C</u>	
	<u>40 CFR 61.342(b)</u>	<u>Y</u>		<u>Recordkeeping</u>	<u>40 CFR 61.356</u>	<u>C</u>	<u>Records</u>
	<u>40 CFR 61.342(b)</u>	<u>Y</u>		<u>Reporting</u>	<u>40 CFR 61.357</u>	<u>P/A</u>	<u>Report</u>
	<u>40 CFR 63.647</u>	<u>Y</u>		<u>Reporting and Recordkeeping</u>	<u>40 CFR 63.654(a)</u>	<u>C</u>	<u>Report and Records</u>
<u>SO2</u>	<u>BAAQMD 9-1-304</u>	<u>Y</u>		<u>Sulfur content < 0.5% (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO2</u>	<u>BAAQMD 9-1-602</u>	<u>N</u>	<u>BAAQMD MOP Method 10</u>
<u>SO2</u>	<u>BAAQMD Condition 8077, Part B2A Appendix A.3</u>	<u>Y</u>		<u>4580 tons/year</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>SO2</u>	<u>BAAQMD Condition 8077, Part B2B Appendix A.3</u>	<u>Y</u>		<u>684 tons/month Maximum emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>SO2</u>	<u>BAAQMD Condition 8077, Part B2D Appendix A.3</u>	<u>Y</u>		<u>Allowable accumulated emissions at end of any month 4580 tons/year prorated by elapsed months + 258 tons</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>PM</u>	<u>BAAQMD 8-40-304</u>	<u>Y</u>		<u>Exposed surface area < 6,000 square feet (Active storage pile)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>PM</u>	<u>BAAQMD 8-40-305</u>	<u>Y</u>		<u>Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>PM</u>	<u>BAAQMD Condition 8077, Part B2A Appendix A.5</u>	<u>Y</u>		<u>443 tons/year</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	<u>BAAQMD Condition 8077, Part B2B Appendix A.5</u>	Y		<u>46 tons/month Maximum emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
PM	<u>BAAQMD Condition 8077, Part B2C Appendix A.5</u>	Y		<u>42 tons/month Compensatory emission limit</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
PM	<u>BAAQMD Condition 8077, Part B2D Appendix A.5</u>	Y		<u>Allowable accumulated emissions at end of any month 443 tons/year prorated by elapsed months + 9 tons</u>	<u>BAAQMD Condition 8077, Parts B4, B5</u>	P/M	<u>Calculations and Report [EMIT Report]</u>
VOC	<u>BAAQMD 8-40-306.4</u>	Y		<u>Within 45 days of excavation or 90 days of < 500 ppmw, cover with > 6" uncontaminated soil or remove all contaminated soil from site or initiate treatment</u>	<u>BAAQMD 8-40-601.3 (< 250 cubic yds) 8-40-601.4 (> 250 cubic yds)</u>	P/E	<u>Sample every 50 cubic yds excavated (< 250 cubic yds) Sample every 100 cubic yds excavated (> 250 cubic yds)</u>
VOC	<u>BAAQMD 8-40-306.6</u>	Y		<u>During periods of inactivity > 12 hours, Backfilled contaminated soil covered with > 6" uncontaminated soil or continuous heavy duty plastic sheeting</u>	None	N	N/A
VOC	<u>40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)</u>	Y		<u>Gap width <= 3.81 cm Total gap surface area <= 212 cm2 per meter of tank diameter</u>	<u>40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)</u>	<u>P/ Within 60 days of initial fill after 1 year OOS</u>	<u>EFR Primary seal gap measurements</u>

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width <= 1.27 cm Total gap surface area <= 21.2 cm ² per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width <= 3.81 cm Total gap surface area <= 212 cm ² per meter of tank diameter	40 CFR 63.120(b)(1)(i) 63.120(b)(1)(iv)	P/ Within 90 days of refilling after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width <= 1.27 cm Total gap surface area <= 21.2 cm ² per meter of tank diameter	40 CFR 63.120(b)(1)(ii) 63.120(b)(1)(iii)	P/ Within 90 days of refilling after 1 year OOS	EFR Secondary seal gap measurements
VOC	Condition 19528 Part 12	Y		Tank TVP <= 0.5 psia [8-5-117 exemption]	BAAQMD Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis
40 CFR 63 Subpart GGGGG							
Exemption	40 CFR 63.7884(b)	Y		Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)	40 CFR 63.7884(b)(3)	N	Records
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Tanks: Comply with 63.7895-7898 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(ii)	Y		For Containers: Comply with 63.7900-7903 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
HAP	40 CFR 63.7886(b)(4)(i) 63.684(b)(4)	Y		≥ 95% HAP reduction efficiency or HAP removed by biological degradation > required mass removal (Option 4)	40 CFR 63.7886(b)(4)(ii) 63.684(e)(4)	P/ Dependent on written procedures & operating plan	Dependent on written procedures & operating plan
40 CFR 63 Subpart GGGGG Containers							
Gaps	40 CFR 63.7902(a) [63.926(a)(1) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)	40 CFR 63.926(a)(1)	P/ Before or on date of container acceptance	Visual Inspection
Gaps	40 CFR 63.7902(a) [63.926(a)(2) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)	40 CFR 63.7903(c)(2) 63.7903(d)(3) 63.926(a)(2)	P/A	Visual Inspection
Gaps	40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]	Y		Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1st attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect	None	N	N/A
40 CFR 63 Subpart GGGGG Transfer Systems							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2758

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1st attempt at repair within 5 calendar days & repair within 45 calendar days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection

Table VII – BA.2
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2759

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Benzene</u>	<u>40 CFR 61.342(e)(2)(i) 63.647(a)</u>	<u>Y</u>		<u>6.0 Mg/yr (6.6 tons/yr) [Facility-wide limit combined with Facility B2758]</u>	<u>40 CFR 61.356(b)(4)</u>	<u>N</u>	<u>Records</u>
Ambient H ₂ S	<u>BAAQMD 9-2-301</u>	<u>Y</u>		<u>Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min</u>	<u>BAAQMD 9-2-501</u>	<u>P/As required by APCO consistent with Regulation 9-2-501</u>	<u>Area Monitoring</u>
<u>POC</u>	<u>40 CFR 61.343 (a)(1)(i)(A)</u>	<u>Y</u>		<u>Tanks fittings leak ≤ 500 ppm</u>	<u>40 CFR 61.343 (a)(1)(i)(A)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
<u>POC</u>	<u>40 CFR 61.343 (a)(1)(i)(B)</u>	<u>Y</u>		<u>Tanks openings closed and properly gasketed</u>	<u>40 CFR 61.343(c)</u>	<u>P/Q</u>	<u>Visual Inspection</u>
<u>POC</u>	<u>40 CFR 61.343(d)</u>	<u>Y</u>		<u>Tank broken seals & gaskets repaired within 45 days</u>	<u>40 CFR 61.356(g)</u>	<u>P/Q</u>	<u>Reports</u>
<u>POC</u>	<u>40 CFR 61.345(a)(1)(i)</u>	<u>Y</u>		<u>Container openings leak ≤ 500 ppm</u>	<u>40 CFR 61.345(a)(1)(i)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
<u>POC</u>	<u>40 CFR 61.345(b)</u>	<u>Y</u>		<u>Containers closed & properly gasketed</u>	<u>40 CFR 61.345(b)</u>	<u>P/Q</u>	<u>Visual Inspection</u>
<u>POC</u>	<u>40 CFR 61.345(c)</u>	<u>Y</u>		<u>Container broken seals & gaskets repaired within 15 days</u>	<u>40 CFR 61.345(g)</u>	<u>P/Q</u>	<u>Reports</u>
<u>Ambient SO₂</u>	<u>BAAQMD 9-1-301</u>	<u>Y</u>		<u>Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.5 ppm for 24 hours</u>	<u>BAAQMD 9-1-501</u>	<u>P/ As required by APCO consistent with BAAQMD 9-1-501</u>	<u>Area Monitoring</u>
<u>SO₂</u>	<u>BAAQMD 9-1-304</u>	<u>Y</u>		<u>Sulfur content ≤ 0.5% (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO₂</u>	<u>BAAQMD 9-1-602</u>	<u>N</u>	<u>BAAQMD MOP Method 10</u>
<u>PM</u>	<u>BAAQMD 8-40-304</u>	<u>Y</u>		<u>Exposed surface area ≤ 6,000 square feet (Active storage pile)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – BA.2
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2759

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>PM</u>	<u>BAAQMD 8-40-305</u>	<u>Y</u>		<u>Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VOC</u>	<u>BAAQMD 8-5-328.1</u>	<u>N</u>		<u>< 10,000 ppm organic concentration (Degassing)</u>	<u>BAAQMD 8-5-328.1 8-5-605.2</u>	<u>P/E</u>	<u>Method 21 Inspection At least four consecutive measurements performed at intervals no shorter than 15 minutes each.</u>
<u>VOC</u>	<u>SIP 8-5-328.1</u>	<u>Y</u>		<u>< 10,000 ppm organic concentration (Degassing)</u>	<u>BAAQMD 8-5-328.1.2 8-5-605</u>	<u>P/E</u>	<u>Method 21 Inspection</u>
<u>VOC</u>	<u>BAAQMD 8-5-328.1</u>	<u>N</u>		<u>90% abatement efficiency (tank degassing)</u>	<u>BAAQMD 8-5-502.2 8-5-603</u>	<u>P/ Within 12 months prior to abatement use or during operation</u>	<u>Source Test</u>
<u>VOC</u>	<u>SIP 8-5-328.1.2</u>	<u>N</u>		<u>90% abatement efficiency (tank degassing)</u>	<u>SIP 8-5-502 8-5-603.2</u>	<u>P/ A</u>	<u>Source Test</u>
<u>VOC</u>	<u>BAAQMD 8-5-331</u>	<u>N</u>		<u>90% abatement efficiency (tank cleaning)</u>	<u>BAAQMD 8-5-502.2 8-5-603</u>	<u>P/A</u>	<u>Source Test</u>
<u>VOC</u>	<u>BAAQMD 8-5-331</u>	<u>N</u>		<u>90% abatement efficiency (tank cleaning)</u>	<u>BAAQMD 8-5-502.2 8-5-603</u>	<u>P/ A</u>	<u>Source Test</u>
<u>VOC</u>	<u>BAAQMD 8-5-332.1</u>	<u>N</u>		<u>No liquid leakage [Sludge containers]</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VOC</u>	<u>BAAQMD 8-5-332.2</u>	<u>N</u>		<u>Gaps <=1.3 cm (1/2 inch) [Sludge containers]</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – ~~BA.2~~
Applicable Limits and Compliance Monitoring Requirements
FACILITY #B2759

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-40-306.4	Y		Within 45 days of excavation or 90 days of < 500 ppmw. cover with > 6" uncontaminated soil or remove all contaminated soil from site or initiate treatment	BAAQMD 8-40-601.3 (< 250 cubic yds) 8-40-601.4 (> 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (< 250 cubic yds) Sample every 100 cubic yds excavated (> 250 cubic yds)
VOC	BAAQMD 8-40-306.6	Y		During periods of inactivity > 12 hours. Backfilled contaminated soil covered with ≥ 6" un contaminated soil or continuous heavy duty plastic sheeting	None	N	N/A
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm² per meter of tank diameter	40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm² per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm² per meter of tank diameter	40 CFR 63.120(b)(1)(i) 63.120(b)(1)(iv)	P/ Within 90 days of refilling after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm² per meter of tank diameter	40 CFR 63.120(b)(1)(ii) 63.120(b)(1)(iii)	P/ Within 90 days of refilling after 1 year OOS	EFR Secondary seal gap measurements
VOC	Condition 19528 Part 12	Y		Tank TVP ≤ 0.5 psia [8-5-117 exemption]	Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis

**Table VII – ~~BA.2~~
 Applicable Limits and Compliance Monitoring Requirements
 FACILITY #B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>40 CFR 63 Subpart GGGGG</u>							
<u>Exemption</u>	<u>40 CFR 63.7884(b)</u>	<u>Y</u>		<u>Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)</u>	<u>40 CFR 63.7884(b)(3)</u>	<u>N</u>	<u>Records</u>
<u>HAP</u>	<u>40 CFR 63.7886(b)(1)(i)</u>	<u>Y</u>		<u>For Tanks: Comply with 63.7895-7898 (Option 1)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>HAP</u>	<u>40 CFR 63.7886(b)(1)(i)</u>	<u>Y</u>		<u>For Containers: Comply with 63.7900-7903 (Option 1)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>HAP</u>	<u>40 CFR 63.7886(b)(1)(v)</u>	<u>Y</u>		<u>For Transfer system: Comply with 63.7915-7918 (Option 1)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VOHAP</u>	<u>40 CFR 63.7886(b)(2)</u>	<u>Y</u>		<u>500 ppmw (40 CFR 63 Subpart GGGGG Option 2)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>HAP</u>	<u>40 CFR 63.7886(b)(3)</u>	<u>Y</u>		<u>If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>HAP</u>	<u>40 CFR 63.7886(b)(4)(i)</u> <u>63.684(b)(4)</u>	<u>Y</u>		<u>≥ 95% HAP reduction efficiency or HAP removed by biological degradation ≥ required mass removal (Option 4)</u>	<u>40 CFR 63.7886(b)(4)(ii)</u> <u>63.684(e)(4)</u>	<u>P/ Dependent on written procedures & operating plan</u>	<u>Dependent on written procedures & operating plan</u>
<u>40 CFR 63 Subpart GGGGG Containers</u>							
<u>Gaps</u>	<u>40 CFR 63.7902(a)</u> <u>[63.926(a)(1) reference]</u>	<u>Y</u>		<u>No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)</u>	<u>40 CFR 63.926(a)(1)</u>	<u>P/ Before or on date of container acceptance</u>	<u>Visual Inspection</u>

**Table VII – ~~BA.2~~
 Applicable Limits and Compliance Monitoring Requirements
 FACILITY #B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Gaps</u>	<u>40 CFR 63.7902(a) [63.926(a)(2) reference]</u>	<u>Y</u>		<u>No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)</u>	<u>40 CFR 63.7903(c)(2) & 63.7903(d)(3) 63.926(a)(2)</u>	<u>P/A</u>	<u>Visual Inspection</u>
<u>Gaps</u>	<u>40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]</u>	<u>Y</u>		<u>Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1st attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>40 CFR 63 Subpart GGGGG Transfer Systems</u>							
<u>Joints</u>	<u>40 CFR 63.7915(c)(2) 63.7918(d)(1)</u>	<u>Y</u>		<u>All joints or pipe section seams must be permanently or semi-permanently sealed</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Leaks</u>	<u>40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)</u>	<u>Y</u>		<u>No leaks or defects Make 1st attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system</u>	<u>40 CFR 63.7917(c)</u>	<u>P/A</u>	<u>Visual Inspection</u>

SECTION B PROCESS UNITS & MISC

Table VII – KB.1
Applicable Limits and Compliance Monitoring Requirements
S802- FCCU FLUID CATALYTIC CRACKING UNIT AND CATALYST REGENERATOR
~~S802 IS ABATED BY S901 CO BOILER~~
ABATED BY A30 ESP

~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD 9-1-301	Y		ground-level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	BAAQMD 1-510	C	SO ₂ GLM
SO ₂	BAAQMD 9-1-310.1	Y		1000 ppmv	BAAQMD 9-1-502, BAAQMD 1-520.5	C	SO ₂ CEM
NO _x	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 354.4 tons/yr [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Parts 2A and 4 Condition 8077, Part B4D	C	CEM
					BAAQMD Condition 11433, Part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and report [EMIT Report]
NO _x	BAAQMD Condition 11433, Part 7	Y		20 ppmvd @ 0% O ₂ , 365-calendar day rolling average, measured prior to commingling with other streams	BAAQMD Permit Condition 11433, Part 137	C	NO _x and O ₂ CEMs

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~
~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~
~~FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition 11433, Parts 7 & 12	Y		40 ppmvd @ 0% O2, 7-calendar day rolling average, measured prior to commingling with other streams, except during feed hydrotreater outages	BAAQMD Condition 11433, Part 137	C	NOx and O2 CEMS
Opacity	BAAQMD 1-520.6 6-1-302	N Y		20% opacity, except for 3 minutes in any one hour	BAAQMD 1-520.56, 1-522, 6-1-501, 6-1-502	C	COMs
<u>Opacity</u>	<u>BAAQMD SIP 6-302</u>	<u>Y</u>		<u>20% opacity, except for 3 minutes in any one hour</u>	<u>BAAQMD 1-520.5, 1-522, SIP 6-501, 6-502</u>	<u>C</u>	<u>COMs</u>
<u>Opacity</u>	<u>BAAQMD Condition 11433, Part 2B</u>	<u>Y</u>		<u>20% opacity, except for 3 minutes in any one hour [at exit of S901 CO Boiler when S901 is burning CO gas from the FCCU</u>	<u>BAAQMD Condition 11433, Part 2B</u>	<u>C</u>	<u>COMs</u>

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~
~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~
~~FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	NSPS Subpart J <u>40 CFR</u> 60.102(a)(2) MACT Subpart UUU 63.1564 (a)(1) BAAQMD 1-520.8 BAAQMD Condition 11433, Part 11	Y		30% opacity, except for one 6 minute average opacity reading in 1 hour <u>[at exit of S901 CO Boiler]</u>	NSPS Subpart J <u>40 CFR</u> 60.105(a)(1) 60.105(e)(1) MACT Subpart UUU 63.1564(b)(1) 63.1564(c)(1) BAAQMD 6-501 6-502 1-522 BAAQMD Condition 11433, Parts <u>2B & 11</u>	C	COMs
PM	NSPS Subpart J <u>40 CFR</u> 60.102(a)(1) 60.102(b) MACT Subpart UUU 63.1564 (a)(1) BAAQMD Condition 11433, Parts <u>10 & 11</u>	Y		1.0 lb per 1000 lb of coke burn-off.	NSPS Subpart J <u>40 CFR</u> 60.105(c), MACT Subpart UUU 63.1564(b)(5) 63.1564(c)(1) BAAQMD Condition 11433, Part 11 <u>10</u>	NP/Initial and <u>when</u> <u>required by</u> <u>APCO</u>	None Source Test
<u>PM/PM10</u>	<u>BAAQMD</u> <u>Condition</u> <u>11433,</u> <u>Part 2</u>	<u>Y</u>		<u>Total from S802 and S901</u> <u><= 151.5 tons/yr</u>	<u>BAAQMD</u> <u>Condition</u> <u>11433, part 4</u> <u>Condition 8077,</u> <u>Part B4D, and</u> <u>Appendix</u> <u>C.4(b)</u>	<u>P/monthly</u> <u>every other</u> <u>year</u>	<u>Source Test</u>

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~
~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~
~~FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					<u>BAAQMD Condition 11433, part 4 Condition 8077, parts B5A, B5B</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>POC</u>	<u>BAAQMD Condition 11433, Part 2</u>	<u>Y</u>		<u>Total from S802 and S901 <= 5.8 tons/yr</u>	<u>BAAQMD Condition 11433, part 4 Condition 8077, parts B4, B5A, B5B</u>	<u>P/M</u>	<u>Calculations and Report [EMIT Report]</u>
<u>SO2</u>	<u>BAAQMD Condition 11433, Part 2</u>	<u>Y</u>		<u>Total from S802 and S901 <= 1335.5 tons/yr [at exit of S901 CO Boiler]</u>	<u>BAAQMD Condition 11433, Parts 2A and 4 Condition 8077, Part B4D</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD Condition 11433, Part 4 Condition 8077, parts B5A, B5B</u>	<u>P/M</u>	<u>Calculations and report [EMIT Report]</u>
<u>SO₂</u>	<u>NSPS Subpart J 40 CFR 60.104(b)(2) 60.104(c) BAAQMD Condition 11433, Part 11</u>	<u>Y</u>		<u>9.8 kg/Mg (20 lb/ton) coke burn-off, 7-day rolling average</u>	<u>NSPS -Subpart J 40 CFR 60.105(c), 60.106(i)(12) BAAQMD Condition 11433, Part 11</u>	<u>CP/D</u>	<u>AMPSO₂ CEM</u>

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~

~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD Condition 11433, Part 8	Y		25 ppmvd @ 0% O ₂ , 365-day rolling average	BAAQMD Condition 11433, Part 8 <u>14</u>	C	SO ₂ and O ₂ CEMs
SO ₂	BAAQMD Condition 11433, Parts 8 & 12	Y		50 ppmvd @ 0% O ₂ , 7-day rolling average, except during feed hydrotreater outages	BAAQMD Condition 11433, Part 14 <u>8</u>	C	SO ₂ and O ₂ CEMs
CO	NSPS Subpart J <u>40 CFR 60.103(a)</u> MACT Subpart UUU 63.1565 (a)(1) <u>BAAQMD Condition 11433, Part 11</u>	Y		500 ppmvd, 1-hour average	<u>BAAQMD 1-520.8, 1-522</u> NSPS Subpart J <u>40 CFR 60.105(a)(2), 60.105(c) 60.105(e)(2)</u> MACT Subpart UUU 63.1565(b)(1) 63.1565(c)(1) <u>BAAQMD Condition 11433, Part 11</u>	C	CO CEMs
CO	BAAQMD Condition 11433, Part <u>2</u>	Y		Total from S802 and S901 \leq 121.9 tons/yr	BAAQMD Condition 11433, Part 11	C	<u>CO CEMs</u>
					<u>BAAQMD Condition 11433, part 4 Condition 8077, parts B4, B5A, B5B</u>		

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~

~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 11433, Part 9	Y		500 ppmvd @ 0% O2, 1-hour block average	BAAQMD Condition 11433, Parts 9 & 11	C	CO & O2 CEMs
Visible Emissions	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than ≤ 3 minutes/hour	N None	C	COM N/A
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 < 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Visible Emissions	BAAQMD 6-1-304	N		During tube cleaning Ringelmann No. 2 for < 3 min/hr and < 6 min/billion btu/24 hours	BAAQMD 1-520.6, 1-522, 6-1-501, 6-1-502	C	COMs
Visible Emissions	SIP 6-304	Y		During tube cleaning, Ringelmann No. 2 for < 3 min/hr and < 6 min/billion btu/24 hours	BAAQMD 1-520.6, SIP 1-522, 6-501, 6-502	C	COMs
VP Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition # 11433, Part 2B, Condition # 22150, p Part 1	C	COMs

Table VII – ~~KB.1~~
Applicable Limits and Compliance Monitoring Requirements
S802- ~~FCCU~~ FLUID CATALYTIC CRACKING UNIT ~~AND CATALYST REGENERATOR~~
~~S802 IS ABATED BY S901 CO BOILER~~
~~ABATED BY A30 ESP~~
~~SEE TABLE VII – V FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS~~
~~FOR PARTICULATE EMISSIONS~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COMs</u>
<u>FP</u>	<u>BAAQMD 6-1-310 6-1-311 SIP 6-310 SIP 6-311 BAAQMD Condition 22150, Part 2</u>	<u>Y</u>		<u>30% opacity, except for one 6 minute average opacity reading in 1 hour</u>	<u>BAAQMD Condition 22150, Part 2</u>	<u>P/E</u>	<u>Source Test</u>
S802 IS ABATED BY S901 CO BOILER, SEE TABLE VII – C.1.IV FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS FOR PARTICULATE EMISSIONS							

Table VII – ~~NB.2~~
Applicable Limits and Compliance Monitoring Requirements
S815–NO. 1 FEED PREP UNIT, S816–NO. 2 FEED PREP UNIT,
S817–NO. 3 CRUDE UNIT, S1001–NO. 50 CRUDE UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Through-put (S817)</u>	<u>BAAQMD Condition 17837, Part 1</u>	<u>Y</u>		<u>63,000 bbl/calendar day</u>	<u>BAAQMD Condition 17837, Part 3</u>	<u>P/D</u>	<u>Records</u>

Table VII – ~~NB.2~~
Applicable Limits and Compliance Monitoring Requirements
S815–No. 1 FEED PREP UNIT, S816–No. 2 FEED PREP UNIT,
S817–No. 3 CRUDE UNIT, S1001–No. 50 CRUDE UNIT

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 (S817)	BAAQMD Condition 17837, Part 2	Y		22,995,000 bbl/rolling 365 consecutive days	BAAQMD Condition 17837, Part 3	P/D	Records
Through-put	BAAQMD Condition 8077, Part B3Aii	Y		108,000 barrels/stream day or 97,000 barrels/day calendar day avg. (if limits of BAAQMD Condition 8077, Part B2A are exceeded and until emission reductions of Part B3Ai are installed)	BAAQMD Condition 8077, Part B5A	P/D	Records
VOC	BAAQMD 8-2-301	Y		miscellaneous operations shall not emit more than 15 lb/day and containing a concentration of more than 300 ppm total carbon on a dry basis	8-2-601	N	BAAQMD source test method or EPA Method 25 or 25A
VOC (all except S1001)	BAAQMD Condition 10696, Part 1	Y		95% abatement efficiency [A12 vapor recovery]	None	N	N/A
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records

Table VII – B.3
Applicable Limits and Compliance Monitoring Requirements
~~S848-FCCU: MEROX UNIT, S850-NO. 3 HDS UNIT~~

<u>Type of Limit</u>	<u>Emission Limit Citation Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission Limit Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Thruput (S850)</u>	<u>BAAQMD Condition 8077, Part B6B</u>	<u>Y</u>		<u>70,000 bbl/stream day</u>	<u>BAAQMD Condition 8077, Part B5A</u>	<u>P/D</u>	<u>Records</u>
<u>Thruput (S848)</u>	<u>BAAQMD Condition 8077, Part B6B</u>	<u>Y</u>		<u>55,000 bbl/stream day</u>	<u>BAAQMD Condition 8077, Part B5A</u>	<u>P/D</u>	<u>Records</u>

Table VII – HB.4
Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-No. 3 HDS UNIT~~

~~S1001-No. 50 CRUDE UNIT, S1002-No. 1 HDS UNIT~~

~~_____ , S1003-No. 2 HDS UNIT~~

~~S1004-No. 2 CATALYTIC REFORMER, S1005-No. 1 HYDROGEN PLANT~~

~~S1006-No. 1 HDS HDA UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-No. 3 UOP REFORMER~~

~~S1100-METHYL TERTIARY BUTYL ETHER PLANT~~

S1105-No. 4 HDS UNIT

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
POC S-1005 CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15-lb/day and 300-ppm (dry-basis) total carbon	BAAQMD Cond. 22070, part 1	P/A	Annual Source Test
Equipment Leak S-1007		Y			BAAQMD Condition 1910, Part 3	P/M	Visual inspection
Through- put (S-1002)	BAAQMD Condition 8350, Part A1	Y		28,000 bbl naphtha/day, rolling 365-day average 10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
<u>Through- put (S1003)</u>	<u>BAAQMD Condition 8350, Part B1</u>	<u>Y</u>		<u>40,000 bbls diesel/day, rolling 365-day average 14,600 bbls feed per 12 consecutive months</u>	<u>BAAQMD Condition 8350, Part B4</u>	<u>P/D</u>	<u>Records</u>

Table VII – HB.4
Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-No. 3 HDS UNIT~~

~~S1001-No. 50 CRUDE UNIT, S1002-No. 1 HDS UNIT~~

~~S1003-No. 2 HDS UNIT~~

~~S1004-No. 2 CATALYTIC REFORMER, S1005-No. 1 HYDROGEN PLANT~~

~~S1006-No. 1 HDS HDA UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-No. 3 UOP REFORMER~~

~~S1100-METHYL TERTIARY BUTYL ETHER PLANT~~

S1105-No. 4 HDS UNIT

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put (S1006)	BAAQMD Condition 8350, Part C1	Y		20,000 bbls/day, rolling 365-day average 7,300,000 bbls feed per 12 consecutive months	BAAQMD Condition 8350, Part C4	P/D	Records
Through-put (S1105)	BAAQMD Condition 19199, Part G0	Y		40.080 bbls hydrocarbon material/calendar day	BAAQMD Condition 19199, Part G9	P/D	Records
The following applies to S1020 – No. 3 UOP Reformer							
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		≤ 10 ppmv dry at 3% O ₂	40 CFR 63.1567(b)(2)	Initial	Performance test (Method 26)
pH	40 CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid ≥ performance test limit	40 CFR 63.1567(e)(1)	C	pH monitoring system
Liquid to-gas ratio	40 CFR 63.1567 (a)(2)	Y		Daily average liquid to-gas ratio in wet scrubber ≥ performance test limit	40 CFR 63.1567(e)(1)	C	Liquid and gas flow meters
The following applies to S1004 – No. 3 Catalytic Reformer							
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		≤ 30 ppmv dry at 3% O ₂	40 CFR 63.1567(b)(2)	Initial	Performance Test (Method 26)

Table VII – HB.4

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-No. 3 HDS UNIT~~

~~S1001-No. 50 CRUDE UNIT, S1002-No. 1 HDS UNIT~~

~~_____ , S1003-No. 2 HDS UNIT~~

~~S1004-No. 2 CATALYTIC REFORMER, S1005-No. 1 HYDROGEN PLANT~~

~~S1006-No. 1 HDS HDA UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-No. 3 UOP REFORMER~~

~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

S1105-No. 4 HDS UNIT

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		_____	40-CFR 63.1567(e)(1)	P/E	Colormetric Tube System
HCl	40-CFR 63.1567 (a)(2)	Y		Daily average HCl \leq performance test limit	40-CFR 63.1567(e)(1)	P/E	Colormetric Tube System

Table VII – HB.5
Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~
~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~
~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~
~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~
~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~
~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~
~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation Citation of Limit	FE Y/N	Future Effective Date	Emission Limit Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
POC S-1005-CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lb/day and 300 ppm (dry basis) total carbon	BAAQMD Cond. 22070, part 1	P/A	Annual Source Test
Equipment Leak S-1007		Y			BAAQMD Condition 1910, Part 3	P/M	Visual inspection
Through-put S-1002	BAAQMD Condition 8350, Part A1	Y		28,000 bbl naphtha/day, rolling 365-day average 10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
The following applies to S1020 – No. 3 UOP Reformer							
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		≤ 10 ppmv dry at 3% O ₂	40-CFR 63.1567(b)(2)	Initial	Performance test (Method 26)
pH	40-CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid \geq performance test limit	40-CFR 63.1567(e)(1)	C	pH monitoring system
Liquid-to-gas ratio	40-CFR 63.1567 (a)(2)	Y		Daily average liquid-to-gas ratio in wet scrubber \geq performance test limit	40-CFR 63.1567(e)(1)	C	Liquid and gas flow meters

Table VII – HB.5
Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~
~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~
~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~
~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~
~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~
~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~
~~S1100-METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation on of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
The following applies to S1004 – No. 23 Catalytic Reformer							
<u>Visible Emissions</u>	<u>40 CFR 63.1566 (a)(1)(i) 63.1566(a)(3) 63.1566(a)(4)</u>	<u>Y</u>		<u>5 minutes during any 2 hour operating period when emissions vented to flare during initial catalyst depressuring and purging prior to catalyst regeneration except when reactor vent pressure is <= 5 psig</u>	<u>40 CFR 63.1566(a)(2) 63.1566(b)(1) 63.1566(c)(1)</u>	<u>C</u>	<u>Flare pilot light indication</u>
<u>Visible Emissions</u>	<u>40 CFR 63.1566 (a)(1)(i) 63.1566(a)(3) 63.1566(a)(4)</u>	<u>Y</u>		<u>5 minutes during any 2 hour operating period when emissions vented to flare during initial catalyst depressuring and purging prior to catalyst regeneration except when reactor vent pressure is <= 5 psig</u>	<u>40 CFR 63.1566(b)(2) 63.1566(b)(6)</u>	<u>P/Initial</u>	<u>Source test (Method 22)</u>
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 30 ppmv dry at 3%O ₂ <u>during coke burn-off and catalyst rejuvenation</u>	40 CFR 63.1567(b)(2)	<u>P/Initial</u>	Performance Test (Method 26)
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 30 ppmv dry at 3%O ₂ <u>during coke burn-off and catalyst rejuvenation</u>	40 CFR 63.1567(c)(1)	P/E	Colormetric Tube System
HCl	40 CFR 63.1567-(a)(2)	Y		Daily average HCl <= performance test limit	40 CFR 63.1567(c)(1)	P/E	Colormetric Tube System

Table VII – HB.6
Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~
~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~
~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~
~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~
~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~
~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~
~~S1100-METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non- SIP)	P/E	Records
POC S-1005 CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis 15 lb/day and 300 ppm (dry basis) total carbon	BAAQMD 8-2-601 BAAQMD Condition: 22070, Part 1	P/A	Annual Source Test
Through- put	BAAQMD Condition 24321, Part 1	Y		93.3 mmscf/day 31,025 mmscf/year Hydrogen production	BAAQMD Condition 24321, Part 2	P/D	Records
Equipment Leak S-1007		Y			BAAQMD Condition 1910, Part 3	P/M	Visual inspection
Through- put S-1002	BAAQMD Condition 8350, Part A1	Y		28,000 bbl naphtha/day, rolling 365-day average 10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
The following applies to S1020—No. 3 UOP Reformer							

Table VII – HB.6

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~

~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~

~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~

~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~

~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		≤ 10 ppmv dry at 3%O ₂	40-CFR 63.1567(b)(2)	Initial	Performance test (Method 26)
pH	40-CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid \geq performance test limit	40-CFR 63.1567(e)(1)	C	pH monitoring system
Liquid to-gas ratio	40-CFR 63.1567 (a)(2)	Y		Daily average liquid to-gas ratio in wet scrubber \geq performance test limit	40-CFR 63.1567(e)(1)	C	Liquid and gas flow meters
The following applies to S1004 – No. 3 Catalytic Reformer							
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		≤ 30 ppmv dry at 3%O ₂	40-CFR 63.1567(b)(2)	Initial	Performance Test (Method 26)
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		≤ 30 ppmv dry at 3%O ₂	40-CFR 63.1567(e)(1)	P/E	Colorimetric Tube System
HCl	40-CFR 63.1567 (a)(2)	Y		Daily average HCl \leq performance test limit	40-CFR 63.1567(e)(1)	P/E	Colorimetric Tube System

Table VII – HaB.7

Applicable Limits and Compliance Monitoring Requirements

S1038 BENZENE SATURATION UNIT

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 23258, Part 1	Y		5,475,000 barrels of feed to S-1038 during any 12 consecutive month period.	BAAQMD Condition 23258, Part 5	P/D	Records
POC	BAAQMD Cond 23258 Part 3	Y		0.149 lb/day (365 day average)	BAAQMD Cond 23258 Part 5	P/Q	Fugitive Emission Records

Table VII –B.8
Applicable Limits and Compliance Monitoring Requirements
S1007 HYDROCRACKER UNIT 2ND STAGE,
S1008 HYDROCRACKER UNIT 1ST STAGE

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 8077, Part C1	Y		35,000 bbls/calendar day or 37,000 bbls/stream day	BAAQMD Condition 8077, Part C2 (S1007)	P/D	Records
VOC		Y		No limit—HIR Compressor Fugitive Leak Shroud/Clamp	BAAQMD Condition 1910, Part 3	P/M	Method 21 Inspection
VOC		Y		No limit—HIR Compressor Fugitive Leak Shroud/Clamp	BAAQMD Condition 1910, Part 4	P/M	Method 21 Inspection

Table VII –B.9
Applicable Limits and Compliance Monitoring Requirements
S1009 ALKYLATION UNIT

<u>Type of Limit</u>	<u>Emission Limit Citation</u> <u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
None							

Table VII – HB.10

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

- ~~— S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~
- ~~— S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~
- ~~— S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~
- ~~— S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~
- ~~— S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~
- ~~— S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

<u>Type of Limit</u>	<u>Emission Limit Citation</u> <u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
POC S-1005 CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lb/day and 300 ppm (dry basis) total carbon	BAAQMD Cond. 22070, part 1	P/A	Annual Source Test
Equipment Leak S-1007		Y			BAAQMD Condition 1910, Part 3	P/M	Visual inspection
Through-put S-1002	BAAQMD Condition 8350, Part A1	Y		28,000-bbl naphtha/day, rolling 365-day average 10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
The following applies to S1020—No. 3 UOP Reformer							

Table VII – HB.10

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~

~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~

~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~

~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~

~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation/Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Annual Maintenance</u>	<u>BAAQMD Condition -17292- Part 1 Part 2</u>	<u>Y</u>		<u>1800 lbs fresh carbon per drum (four drums total) at least once per 365 consecutive days</u>	<u>BAAQMD Condition -17292- Part 5A</u>	<u>P/EAs needed</u>	<u>Records</u>
<u>Time</u>		<u>Y</u>		<u>Hours of operation without abatement</u>	<u>BAAQMD Condition -17292- Part 5B</u>	<u>P/D</u>	<u>Records of operation</u>
<u>Toxic Emissions</u>	<u>BAAQMD Condition -17292- Part 3</u>	<u>Y</u>		<u>Specific pollutants tested for in the 1998 California Air Resources Board (CARB) emissions testing on No. 3 Reformer catalyst regenerator vent.</u>	<u>BAAQMD Condition -17292- Parts 5C & 5D</u>	<u>P/Initial— 60 to 90 days after startup</u>	<u>Source Tests</u>
<u>Toxic Emissions</u>	<u>BAAQMD Condition -17292- Part 4</u>	<u>Y</u>		<u>Specific pollutants tested for in the 1998 California Air Resources Board (CARB) emissions testing on No. 3 Reformer catalyst regenerator vent.</u>	<u>BAAQMD Condition -17292- Parts 5C & 5D</u>	<u>P/Initial— 300 to 330 days after startup</u>	<u>Source Tests</u>
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 10 ppmv dry at 3% O ₂	40 CFR 63.1567(b)(2)	P/Initial	Performance test (Method 26)
pH	40 CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid >= performance test limit	40 CFR 63.1567(c)(1)	C	pH monitoring system

Table VII – HB.10

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~

~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~

~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~

~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~

~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation Citation of Limit	FE Y/N	Future Effective Date	Emission Limit Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid-to-gas ratio	40 CFR 63.1567 (a)(2)	Y		Daily average liquid-to-gas ratio in wet scrubber >= performance test limit	40 CFR 63.1567(c)(1)	C	Liquid and gas flow meters
<u>Organic HAPs</u>	<u>40 CFR 63.1566(a)(1)(ii)</u> <u>63.1566(a)(3)</u> <u>63.1566(a)(4)</u>			<u>Meet TOC or nonmethane TOC percent reduction standard or concentration limit [when venting to process furnace]</u>	<u>63.1566(b)(5)(ii)</u>	<u>None</u>	<u>n/a</u>
<u>Organic HAPs</u>	<u>40 CFR 63.1566(a)(1)(i)</u> <u>63.1566(a)(3)</u> <u>63.1566(a)(4)</u>	<u>Y</u>		<u>Control with a flare that meets requirements of 63.11(b)</u>	<u>40 CFR 63.11(b)(1)</u> <u>40 CFR 63.1566(b)(2) & Table 18, Option 1b</u>	<u>P/Initial</u>	<u>Calculations</u>
<u>Organic HAPs</u>	<u>40 CFR 63.1566(a)(2)(i)</u> <u>63.1566(a)(3)</u> <u>63.1566(a)(4)</u>	<u>Y</u>		<u>Control with a flare that meets requirements of 63.11(b): Flare pilot light operating at all times</u>	<u>40 CFR 63 Subpart UUU Table 16</u>	<u>C</u>	<u>Flare pilot light indication</u>
<u>Visible Emissions</u>	<u>40 CFR 63.1566(a)(1)(i)</u> <u>63.1566(a)(3)</u> <u>63.1566(a)(4)</u>	<u>Y</u>		<u>5 minutes in any 2 hour operating period except when reactor vent pressure is <= 5 psig</u>	<u>40 CFR 63.1566(a)(2)</u> <u>63.1566(b)(1)</u> <u>63.1566(c)(1)</u>	<u>C</u>	<u>Flare pilot light indication</u>

Table VII – HB.10

Applicable Limits and Compliance Monitoring Requirements

~~Applicable Limits and Compliance Monitoring Requirements~~

~~S590-DEA FLASH DRUM, S848-FCCU MEROX UNIT, S850-NO. 3 HDS UNIT~~

~~S1001-NO. 50 CRUDE UNIT, S1002-NO. 1 HDS UNIT, S1003-NO. 2 HDS UNIT~~

~~S1004-NO. 2 CATALYTIC REFORMER, S1005-NO. 1 HYDROGEN PLANT~~

~~S1006-NO. 1 HDS UNIT, S1007-HYDROCRACKER UNIT, S1008-HDN UNIT~~

~~S1009-ALKYLATION UNIT, S1020-NO. 3 UOP REFORMER~~

~~S1100 METHYL TERTIARY BUTYL ETHER PLANT~~

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	40-CFR 63.1566 (a)(1)(i) 63.1566(a)(3) 63.1566(a)(4)	Y		5 minutes during any 2 hour operating period when emissions vented to flare during initial catalyst depressuring and purging prior to catalyst regeneration except when reactor vent pressure is \leq 5 psig	40-CFR 63.1566(b)(2) 63.1566(b)(6)	P/Initial	Source test (Method 22)
The following applies to S1004 – No. 3 Catalytic Reformer							
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		\leq 30 ppmv dry at 3%O ₂	40-CFR 63.1567(b)(2)	Initial	Performance Test (Method 26)
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		\leq 30 ppmv dry at 3%O ₂	40-CFR 63.1567(c)(1)	P/E	Colometric Tube System
HCl	40-CFR 63.1567 (a)(2)	Y		Daily average HCl \leq performance test limit	40-CFR 63.1567(e)(1)	P/E	Colometric Tube System

Table VII – XX1B.11

Applicable Limits and Compliance Monitoring Requirements

DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-304	Y		Ringelmann No. 1 except for 3 minutes in every consecutive 60 minute period	None	N	NA
PM	BAAQMD 6-305	Y		prohibition of nuisance fallout	None	N	NA
FP	BAAQMD 6-1-310	Y		0.15 grain/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	NA
FP	BAAQMD 6-1-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	NA
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	NA
Throughput	Condition #_23129, Part 3	Y		53,255,000 bbls/day	Condition #_23129, Part 8a	P/D	Records
Throughput	Condition #_23129, Part 3	Y		17,447,20,075,000 bbls/consecutive 12-month period	Condition #_23129, Part 8b	P/M	Records
Visible Emissions	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VP Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

SECTION C COMBUSTION SOURCES
SECTION C.1 COMBUSTION — BOILERS

Table VII – C.1.1V
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x		Y		<u>CEM for NO_x, O₂, or CO₂ only if >250 MMBTU/hr</u>	<u>BAAQMD 1-520.1</u>	C	CEM
NO _x	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 354.4 tpy [at exit of S901]	BAAQMD Condition # 11433, Part 4 and Part 2A <u>Condition 8077, Part B4D</u>	C	CEM
					<u>BAAQMD Condition 11433, Part 4</u> <u>Condition 8077, parts B5A, B5B</u>	P/M	<u>Calculations and EMIT Report</u>
NO _x	<u>BAAQMD Condition # 11433, Part 2</u>	Y		<u>Total from S-802/S-901 ≤ 354.4 tpy</u>	<u>BAAQMD Condition # 11433, Part 4</u>	P/M	Source-Test
NO _x	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm (dry, 3% O ₂), <u>operating day average</u>	BAAQMD 9-10-502.1; <u>BAAQMD Condition 11433, Part 2A</u>	C	CEM
NO _x	BAAQMD 9-10-304	N		CO Boiler emissions: 150 ppm (dry, 3% O ₂), <u>operating day average</u> or >50% abatement	BAAQMD 9-10-502.1; <u>BAAQMD Condition 11433, Part 2A</u>	C	CEM
O ₂		Y		<u>CEM for NO_x, O₂, or CO₂ only if >250 MMBTU/hr</u>	<u>BAAQMD 1-520.1</u>	C	Monitor
O ₂		Y		No limit	BAAQMD 9-10-502.1	C	Monitor
O ₂		Y		No limit	<u>40 CFR 60.45(a)(1)(1)</u>	C	CEM

Table VII – C.1.1V
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 8077, Part B2A	Y					
CO[n2]	BAAQMD Condition # 8077, Part B2B	Y					
CO	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 121.9 tpy [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Part 11	C	CO CEMs
					BAAQMD Condition # 11433, Part 4 Condition 8077, parts B4, B5A, B5B	P/M	Calculations and EMIT Report
CO	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 121.9 tpy	BAAQMD Condition # 11433, Part 4	P/M	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502 BAAQMD Condition 11433, Part 11 and BAAQMD Condition # 19588, part 3	P/Twice Per Year C	Source Test CO CEM

Table VII – C.1.1V
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM/PM10	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 151.5 tpy	BAAQMD Condition #11433, part 4 Condition 8077, parts B5A, B5B and 2B	<u>P/M</u>	<u>-Calculation and EMIT Report</u> COM
PM/PM10	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 151.5 tpy	BAAQMD Condition #11433, Part 4 Condition 8077, Part B4D, and Appendix C.4(b)	<u>P/M</u> onthly every other year	Source Test
Visible Emissions	BAAQMD 6-1-301	<u>N</u>		≥ Ringelmann No. 1 for no more than 3 minutes/hour	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	C	COM
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COM</u>

Table VII – C.1.1V
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-304	N		During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1 None or BAAQMD 1-520.1	C	COM
<u>Opacity</u>	<u>SIP 6-304</u>	<u>Y</u>		<u>During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COM</u>
FP	BAAQMD 6-310	Y		30% opacity	BAAQMD Condition #22150, part 12	C	COM
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1 BAAQMD Condition # 11433, Part 2B	<u>C/P/A</u>	<u>COM Source Test</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COM</u>

Table VII – C.1.1V
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	BAAQMD 6-1-310.3	<u>N</u>		0.15 grain/dscf @ 6% O2	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>CN</u>	<u>COM</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>CN</u>	<u>COM</u>
<u>FP</u>	<u>BAAQMD 6-1-311</u>	<u>N</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COM</u>
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1</u>	<u>C</u>	<u>COM</u>
POC	BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 5.8 tpy [at exit of S901 CO Boiler]	BAAQMD Condition # 11433, <u>p</u> Part 4 <u>Condition 8077, parts B4, B5A, B5B</u>	P/M	<u>Calculations and Report [EMIT Report]Source e-Test</u>

Table VII – C.1.1
Applicable Limits and Compliance Monitoring Requirements
S901-FCCU No. 7 BOILERHOUSE, FCCU CO BOILER CAPACITY: 487 668 MMBTU/HR,
REFINERY FUEL GAS, CARBON MONOXIDE
ABATES S802

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition # 11433, Part 2 BAAQMD Condition # 11433, Part 2	Y		Total from S-802/S-901 ≤ 1335.5 tpy [at exit of S901 CO Boiler] Total from S-802/S-901 ≤ 1335.5 tpy	BAAQMD Condition # 11433, Part 4 and Parts 2A and 4 BAAQMD Condition 8077, Part B4D	C	CEM
					BAAQMD Condition # 11433, Part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and report [EMIT Report] Source Test
SO2	BAAQMD 9-1-301	Y		GLC ³ of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours	BAAQMD 9-1-501	C	Area monitoring
Fuel Flow	Table IIA	Y		Firing duty limits amount of fuel 668 MMBtu/hr, 5,851,680 MMBtu/yr	BAAQMD 9-10-502.2; BAAQMD Condition 8077, Part B4D	C	Fuel Flow meter
Ammonia Injection	BAAQMD Condition # 7397, part 1	Y		Ammonia injection ≤ 1800 lbs/ consecutive 24-hr period	BAAQMD Condition # 7397, part 2	C	Ammonia Flow meter

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
S903-COKER NO. 5 BOILERHOUSE, CAPACITY: 740 MMBTU/HR, REFINERY FUEL GAS,
COKE, FUEL OIL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x		Y		CEM for NO _x , O ₂ , or CO ₂ only if >250 MMBTU/hr	BAAQMD 1-520.1	C	CEM
NO _x	BAAQMD 9-10-304	Y		CO Boiler emissions: 150 ppm (dry, 3% O ₂) or >50% abatement	BAAQMD 9-10-502	C	CEM
O ₂		Y		CEM for NO _x , O ₂ , or CO ₂ only if >250 MMBTU/hr	BAAQMD 1-520.1	C	CEM
O ₂		Y		No limit	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P/M	Source Test
Visible Emissions	BAAQMD 6-301	Y		> 20% Opacity for no more than 3 minutes/hour	BAAQMD 1-520.6	C	COM
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	BAAQMD 1-520.1	C	COM
FP	BAAQMD 6-310	Y		30% opacity	BAAQMD Condition #22150, part 2	C	COM
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	BAAQMD Condition # 573, Part 9a; Condition #22150, part 1	C	COM
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	BAAQMD Condition # 573, Part 9a	P/A	Source Test

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
~~S903-COKER NO. 5 BOILERHOUSE, CAPACITY: 740 MMBTU/HR, REFINERY FUEL GAS, COKE, FUEL OIL~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD 9-1-301	Y		GLC ³ of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours	BAAQMD 9-1-501	€	Area monitoring
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	€	Fuel Flowmeter

Table VII – C.1.2W
Applicable Limits and Compliance Monitoring ~~Requirements~~ Requirements
S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,
NATURAL GAS, ~~COKER FLUE GAS (WHEN S903 NO. 5 BOILERHOUSE IS SHUTDOWN)~~
NSPS SUBPART J BY CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 Slip	BAAQMD Condition 17322, Part 5	Y		20 ppmv, dry @ 3% O2	BAAQMD Condition 17322, Part 6	P/ Semi-annual	Source Test
NOx		Y		CEM for NOx, O2, or CO2 only-if >250 MMBTU/hr	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301 BAAQMD Condition 18372, Part 27	Y		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4	C	CEM
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4	C	CEM
NOx	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm (dry, 3% O2)	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-304	N		CO Boiler emissions: 150 ppm (dry, 3% O2) or >50% abatement	BAAQMD 9-10-502	C	CEM
O2		Y		CEM for NOx, O2, or CO2 only-if >250 MMBTU/hr	BAAQMD 1-520.1	C	Monitor CEM

Table VII – C.1.2W
Applicable Limits and Compliance Monitoring Requirements
S904-No. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,
NATURAL GAS, ~~COKE FLUE GAS (WHEN S903 No. 5 BOILERHOUSE IS SHUTDOWN)~~
NSPS SUBPART J BY CONDITION 23562

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		Y		No limit CEM for O ₂	BAAQMD 9-10-502.1 <u>BAAQMD Condition 17322, Part 4</u> <u>Condition 18372, Part 28</u>	C	Monitor CEM
O₂		Y		No limit	40 CFR 60.45(a)	C	Monitor
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), <u>operating day average</u>	BAAQMD 9-10-502.1 <u>BAAQMD Condition 17322, Part 4</u>	P/M/C	Source Test CEM
Visible Emissions	BAAQMD 6-1-301	NY		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None N/A
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Opacity	BAAQMD 6-302	Y		≥ 20% Opacity for no more than 3 minutes/hour	BAAQMD Condition #17322, Part 4a, BAAQMD 1-520.1	C	COM
<u>Opacity</u>	BAAQMD 6-1-304	NY		During tube cleaning, <u>≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours</u>	None or BAAQMD 1-520.1	C/N	COM N/A

Table VII – C.1.2W
Applicable Limits and Compliance Monitoring ~~Requirements~~ Requirements
S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,
NATURAL GAS, ~~COKER FLUE GAS (WHEN S903 NO. 5 BOILERHOUSE IS SHUTDOWN)~~
NSPS SUBPART J BY CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Opacity</u>	<u>SIP</u> <u>6-304</u>	<u>Y</u>		<u>During tube cleaning,</u> <u>> Ringelmann No. 2</u> <u>for 3 min/hr and 6</u> <u>min/billion btu/24</u> <u>hours</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6-1-310	NY		30% opacity-0.15 grain/dscf	BAAQMD Condition #22150, part 2None	CN	COMN/A
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	BAAQMD 6-1-310.3	NY		0.15 grain/dscf @ 6% O2	BAAQMD Condition # 17322, Part 4a, Condition #22150, part 4None	CN	COMN/A
	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	BAAQMD Condition # 17322, Part 4a	P/A	Source Test
<u>FP</u>	<u>SIP</u> <u>6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6%</u> <u>O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>SO2</u>	BAAQMD 9-1-301	Y		GLC³ of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours	BAAQMD 9-1-501	C	Area monitoring

Table VII – C.1.2W
Applicable Limits and Compliance Monitoring ~~Requirements~~ Requirements
S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,
NATURAL GAS, ~~COKE FLUE GAS (WHEN S903 NO. 5 BOILERHOUSE IS SHUTDOWN)~~
NSPS SUBPART J BY CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	BAAQMD Condition 23562, Part 1 40 CFR- 60 Subpart J 60.104(a)(1) 60.105(e)(3) (ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
Fuel Flow	<u>Table IIA</u>	Y		Firing duty limits amount of fuel: <u>775 MMBtu/hr,</u> <u>6,789,000 MMBtu/yr</u>	BAAQMD 9-10-502.2	C	Fuel Flowmeter †
Fuel Flow	BAAQMD <u>Condition 17322, Part 1</u> Condition 22590, Part 2	Y		Type and amount of fuel burned <u>775 MMBtu/hr (refinery gas and natural gas)</u>	<u>BAAQMD 9-10-502.2</u> BAAQMD Condition 22590, Part <u>13</u>	C	Fuel Flowmeter
VP Visible Particles	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VP Visible Particles	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – C.1.3
Applicable Limits and Compliance Monitoring Requirements
S1550 AND S1551, BACKUP BOILERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Firing Rate</u>	<u>Condition 24491 Part 1</u>			<u>99 MMBTU/hr each Natural gas only</u>	<u>Condition 24491 Part 11</u>	<u>P/E</u>	<u>Records</u>
<u>On-site Residence Time</u>	<u>Condition 24491 Part 2</u>			<u>6 consecutive months each boiler per 12 consecutive month period</u>	<u>Condition 24491 Part 11</u>	<u>P/E</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>Condition 24491 Part 3</u>			<u>2160 hours each boiler in any consecutive 12-month period</u>	<u>Condition 24491 Part 11</u>	<u>P/E</u>	<u>Records</u>

Table VII – C.1.3
Applicable Limits and Compliance Monitoring Requirements
S1550 AND S1551, BACKUP BOILERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Unabated Operation</u>	<u>Condition 24491 Part 4</u>			<u>Operation without SCR limited to 192 hours per consecutive 12-month period total for both boilers during SU and SD events (24 hours per event (SU or SD))</u>	<u>Condition 24491 Part 11</u>	<u>P/E</u>	<u>Records</u>
<u>Fuel Consumption</u>	<u>Condition 24491 Part 6</u>			<u>Total, both boilers 4,277,000 therms in any 12 consecutive month period</u>	<u>Condition 24491 Part 5</u>	<u>C</u>	<u>Fuel Flow CPMS</u>
<u>NOx</u>	<u>Condition 24491 Part 7</u>			<u>< 7ppmvd @ 3% O2 except during startup and shutdown events (24 hours per boiler per SU or SD event)</u>	<u>Condition 24491 Part 10</u>	<u>P/E</u>	<u>Source test</u>
<u>NOx</u>	<u>Condition 24491 Part 8</u>			<u>< 30 ppmvd @ 3% O2 during startup and shutdown events (24 hours per boiler per SU or SD event)</u>	<u>Condition 24491 Part 10</u>	<u>P/E</u>	<u>Source test</u>
<u>CO</u>	<u>Condition 24491 Part 9</u>			<u>< 50 ppmvd @ 3% O2</u>	<u>Condition 24491 Part 10</u>	<u>P/E</u>	<u>Source test</u>
<u>SO2</u>				<u>None</u>	<u>Condition 24491 Part 10</u>	<u>P/E</u>	<u>Source test</u>
<u>POC</u>				<u>None</u>	<u>Condition 24491 Part 10</u>	<u>P/E</u>	<u>Source test</u>

SECTION C.2 COMBUSTION - FLARES

Table VII – RC.2.1
Applicable Limits and Compliance Monitoring Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517- COKER FLARE, S1524-50 UNIT FLARE
~~**S1013-AMMONIA PLANT FLARE**~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	60.104(a)(1)	Y		H2S in fuel gas burned \leq 230 mg/dscm (0.1 gr/dscf), except process upset gases, <u>relief valve leakage</u> or emergency malfunctions	60.105(a)(3) or 60.105(a)(4)	P/C	Records SO2/O2 or H2S
Flare Design <u>(S1524 only)</u>	<u>40 CFR</u> 60.18(c)(3)	Y		Heat content specification as per <u>60.18(c)(3)(ii)</u> and maximum tip velocity specification per <u>60.18(c)(4)</u> , or 60.18(c)(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 <u>(S1524 only)</u>	40 CFR 60.18(c)(2)	Y		The flare shall be operated with a flame present at all times	60.18(f)(2)	P/C	Flame Detector
<u>VOC, HAP</u>	<u>None</u>	N	12/4/03	<u>No limit</u>	BAAQMD Regulation 12-11-501 & 12-11-505	P/C	Flow Rate
<u>VOC, HAP</u>	<u>None</u>	N	9/4/03	<u>No limit</u>	BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
<u>VOC, HAP</u>	<u>None</u>	N	3/4/04	<u>No limit</u>	BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition

Table VII – RC.2.1
Applicable Limits and Compliance Monitoring Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517- COKER FLARE, S1524-50 UNIT FLARE
S1013-AMMONIA PLANT FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Pilot Flame</u>	<u>None</u>	N		<u>No limit</u>	BAAQMD Regulation 12-11-503 & 12-11-505	P/C	Flame Detector
<u>Pilot/ Purge Gas</u>	<u>None</u>	N		<u>No limit</u>	BAAQMD Regulation 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
<u>Flame Detection</u>	<u>None</u>	N	12/4/03 (if video monitor installed by 1/1/03)	<u>No limit</u>	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
<u>Visible Emissions</u>	<u>None</u>	<u>Y</u>		<u>No limit</u>	<u>BAAQMD Condition 19528, Part 11B, 11C</u>	<u>P/ 30 minutes</u>	<u>Video monitoring/ visual inspection</u>
<u>Visible Emissions S1524</u>	<u>40 CFR 60.18(e)(1) 63.11(b)(4)</u>	<u>Y</u>		<u>None except a total of 5 minutes in any consecutive 2 hours</u>	<u>40 CFR 60.18(f)(1)</u>	<u>P/E</u>	<u>Method 22, 2-hr observation period</u>
<u>PM</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>

Table VII — RC.2.1
Applicable Limits and Compliance Monitoring Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517- COKER FLARE, S1524-50 UNIT FLARE
S1013-AMMONIA PLANT FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
Water Seal	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>BAAQMD 12-12-501</u>	<u>C</u>	<u>Water Seal pressure and water level</u>
<u>Visible Emissions Opacity</u>	<u>BAAQMD 6-1-301</u>	<u>NY</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann No. 1</u>	<u>BAAQMD 6-1-401</u> <u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>SIP 6-401</u> <u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>Visible ParticlesF</u> <u>P</u>	<u>BAAQMD 6-1-305</u>	<u>NY</u>		<u>Prohibition of nuisance fallout</u>	<u>BAAQMD 6-1-401</u> <u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>Visible ParticlesV</u> <u>P</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>SIP 6-401</u> <u>BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>

Table VII – RC.2.1
Applicable Limits and Compliance Monitoring Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517-COKER FLARE, S1524-50 UNIT FLARE
~~**S1013-AMMONIA PLANT FLARE**~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Sulfur	40 CFR 60.105(a)(4)(iv)(A)	Y		Exemption for exempt fuel gas streams – pilot gas for flares	40 CFR 60.107(e)	N	Records
	BAAQMD 6-310	N		Process Weight Limitation	None	N	None
The following requirements apply only to S1517							
H2S (S1517)		Y		No limit	BAAQMD Condition 23129, Part 55	C	H2S Monitoring System
POC (S1517)	BAAQMD Condition 23129, Part 52	Y		98.5 wt.% POC abatement efficiency (mass basis)	None	N	N/A
Through-put (S1517)	BAAQMD Condition 23129, Part 53	Y		1,314,000 scf natural gas/ consecutive 12-month period (Flare Pilot)	BAAQMD 12-11-501	C	Flow Meter
Through-put (S1517)	BAAQMD Condition 23129, Part 56	Y		8,584,800 scf natural gas/ consecutive 12-month period (Flare Purge)	BAAQMD 12-11-501	C	Flow Meter
The following requirements apply only to S1524							
H2S (S1524)		Y		No limit	BAAQMD Condition 24323, Part 9 & 11	C	H2S Monitoring System, Records

Table VII – RC.2.1
Applicable Limits and Compliance Monitoring Requirements
FLARES SUBJECT TO NSPS
S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,
S1517- COKER FLARE, S1524-50 UNIT FLARE
S1013-AMMONIA PLANT FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Flare Design (S1524)	BAAQMD Condition 24323, Part 4	Y		Heat content specification as per 60.18(c)(3)(ii) and maximum tip velocity specification per 60.18(c)(4), or 60.18(c)(3)(i) flare specifications; Visible emissions per 60.18(c)(1); Flame presence per 60.18(c)(2)	60.18(f)(1) 60.18(f)(2) 60.18(f)(3) 60.18(f)(4) 60.18(f)(5)	P/E P/E C	Records of heat content and maximum tip velocity; Method 22, 2-hr observation period; Flame Detector
POC (S1524)	BAAQMD Condition 24323, Part 7	Y		98 wt.% POC abatement efficiency (mass basis)	None	N	N/A
Through-put (S1524)	BAAQMD Condition 24323, Part 8	Y		3,942,000 scf natural gas/ consecutive 12-month period (Flare Pilot)	BAAQMD 12-11-501 BAAQMD Condition 24323, Part 11	C	Flow Meter, Records
Through-put (S1524)	BAAQMD Condition 24323, Part 10	Y		3,767,000 scf natural gas/ consecutive 12-month period (Flare Purge)	BAAQMD 12-11-501 BAAQMD Condition 24323, Part 11	C	Flow Meter, Records

Table VII – SaC.2.2
Applicable Limits and Compliance Monitoring Requirements
S943- BUTANE TANK 691 SAFETY FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions		<u>Y</u>		<u>No limit</u>	BAAQMD Condition 19528, Part 11B, 111C	<u>P/ 30 minutes</u>	<u>Video monitoring/ visual inspection</u>
<u>PM</u>	BAAQMD 6-1-310	<u>N</u>		<u>0.15 grain/dscf</u>	BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>PM</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	<u>NY</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1</u>	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>SIP 6-401 BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>VPVisible Particles_F P</u>	BAAQMD 6-1-305	<u>NY</u>		<u>pProhibition of nuisance fallout</u>	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>SIP 6-401 BAAQMD Condition 19528, Part 11B, 111C, 11D and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
	BAAQMD 6-310	<u>Y</u>		<u>Process Weight Limitation</u>	<u>None</u>	<u>N</u>	<u>None</u>

Table VII – SC.2.3
Applicable Limits and Compliance Monitoring Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, S1012-WEST AIR FLARE
FLARES NOT SUBJECT TO NSPS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>VOC, HAP</u>	<u>None</u>	N	12/4/03	<u>No limit</u>	BAAQMD Regulation 12-11-501 & 12-11-505	P/C	Flow Rate
<u>VOC, HAP</u>	<u>None</u>	N	9/4/03	<u>No limit</u>	BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
<u>VOC, HAP</u>	<u>None</u>	N	3/4/04	<u>No limit</u>	BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
<u>Pilot Flame</u>	<u>None</u>	N		<u>No limit</u>	BAAQMD Regulation 12-11-503 & 12-11-505	P/C	Flame Detector
<u>Pilot/Purge Gas</u>	<u>None</u>	N		<u>No limit</u>	BAAQMD Regulation 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
<u>Flame Detection</u>	<u>None</u>	N	12/4/03 (if video monitor installed by 1/1/03)	<u>No limit</u>	BAAQMD Regulation 12-11-507	P/C	1 frame per minute image video recording
<u>Visible Emissions</u>	<u>None</u>	N Y	12/4/03 (if any >1E6 SCF/24 hr vent gas flared)	<u>No Limit</u>	BAAQMD Regulation 12-11-507 BAAQMD Condition 19528, Parts 11B, 11C	<u>P/CP/30 minutes</u>	1 frame per minute image video recording Video Monitoring/visual inspection

Table VII – SC.2.3
Applicable Limits and Compliance Monitoring Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, S1012-WEST AIR FLARE
FLARES NOT SUBJECT TO NSPS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Water seal	None	N		No Limit	BAAQMD 12-12-501	C	Water Seal pressure and water level
Visible Emissions Opacity	BAAQMD 6-1-301	YN		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Visual Inspection Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles ^F P	BAAQMD 6-1-305	YN		Prohibition of nuisance fallout	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E; SIP 6-401	P/E	Gas Flow Meter along with Visual Inspection and Records Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	BAAQMD 6-1-310	NY		0.15 grain/dscf Process Weight Limitation	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E None	P/EN	Gas Flow Meter along with Visual Inspection and Records None

Table VII – SC.2.3
Applicable Limits and Compliance Monitoring Requirements
FLARES NOT SUBJECT TO NSPS
S944-NORTH STEAM FLARE
S945-SOUTH STEAM FLARE, ~~S1012-WEST AIR FLARE~~
FLARES NOT SUBJECT TO NSPS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>PM</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>

Table VII - C.2.4
Applicable Limits and Compliance Monitoring Requirements
ACID GAS FLARE SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE
ACID GAS FLARE SUBJECT TO NSPS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>VOC, HAP</u>	<u>None</u>	<u>N</u>		<u>No Limit</u>	<u>BAAQMD 12-11-501 & 12-11-505</u>	<u>P/C</u>	<u>Flow Rate</u>
<u>VOC, HAP</u>	<u>None</u>	<u>N</u>		<u>No Limit</u>	<u>BAAQMD 12-11-502.1 & 12-11-505</u>	<u>P/E</u>	<u>Composition</u>
<u>VOC, HAP</u>	<u>None</u>	<u>N</u>		<u>No Limit</u>	<u>BAAQMD 12-11-502.3 & 12-11-505</u>	<u>P/E</u>	<u>Composition</u>
<u>Pilot Flame</u>	<u>None</u>	<u>N</u>		<u>No Limit</u>	<u>BAAQMD 12-11-503 & 12-11-505</u>	<u>P/C</u>	<u>Flame Detector</u>
<u>Pilot/ Purge Gas</u>	<u>None</u>	<u>N</u>		<u>No Limit</u>	<u>BAAQMD 12-11-504 & 12-11-505</u>	<u>P/C</u>	<u>Purge Gas Flow Rate</u>

Table VII - C.2.4
Applicable Limits and Compliance Monitoring Requirements
ACID GAS FLARE SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE
ACID GAS FLARE SUBJECT TO NSPS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Flame Detection</u>	None	N		No Limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
<u>VOC, HAP</u>	None	N		No Limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Sulfur	40 CFR 60.105(a)(4) (iv)(A)	Y		Exemption for exempt fuel gas streams – pilot gas for flares	40 CFR 60.107(e)	N	Records
<u>Water Seal</u>	None	N		No Limit	BAAQMD 12-12-501	C	Water seal pressure and water level
<u>Visible ParticlesF P</u>	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
<u>Visible ParticlesF P</u>	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
<u>Visible Emissions</u>	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
<u>Visible Emissions</u>	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

Table VII - C.2.4
Applicable Limits and Compliance Monitoring Requirements
ACID GAS FLARE SUBJECT TO NSPS
S1013-AMMONIA PLANT FLARE
ACID GAS FLARE SUBJECT TO NSPS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Visible Emissions</u>	<u>None</u>	<u>Y</u>		<u>No Limit</u>	<u>BAAQMD Condition 19528, Parts 11B, 11C</u>	<u>P/ 30 minutes</u>	<u>Video monitoring/ visual inspection</u>
<u>PM</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
<u>PM</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>

SECTION C.3 COMBUSTION - INTERNAL COMBUSTION ENGINES

**Table VII — ~~De~~C.3.1
 Facility B2759
 Applicable Limits and Compliance Monitoring Requirements
 Facility B2759
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE-,
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions</u>	<u>BAAQMD 6-1-303.1</u>	<u>N</u>		<u>≥ Ringelmann No. 2 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-303.1</u>	<u>Y</u>		<u>≥ Ringelmann No. 2 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>None</u>
<u>Visible Emissions Opacity</u>	<u>BAAQMD 6-1-304</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann 1 for > 3 minutes in any hour or equivalent opacity</u>	<u>None</u>	<u>N</u>	<u>None</u> <u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-304</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP <u>Visible Particles</u></u>	<u>BAAQMD 6-1-305</u>	<u>Y</u>		Prohibition of nuisance	None	N	<u>None</u> <u>NA</u>
<u>FP <u>Visible Particles</u></u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>Y</u>		0.15 grain/dscf	<u>None</u>	N	<u>None</u> <u>NA</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>Diesel Particulate Matter</u>	<u>CCR, Title 17, Section 93115.6(a)(3)(A)(1)(a)</u>	<u>N</u>		<u>≤ 0.15 g/bhp-hr for 50 hour/year operating limit</u>	<u>None</u>	<u>N</u>	<u>NA</u>

Table VII – DeC.3.1
Facility B2759
Applicable Limits and Compliance Monitoring Requirements
Facility B2759
S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE-,
S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	BAAQMD Condition 23811, Part 1 20672, S56 Part 1 & S57 Part 1	N Y		< 50 hours/year for reliability-related activities up to 100 hour/yr (non-emergency)	BAAQMD Condition 23811, Part 3 BAAQMD 9-8-530 20573, S56 Part 4 & S57 Part 4	C	Totalizing meter
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities up to 100 hours for reliability testing	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1) BAAQMD Condition 23811, Part 3	C	Totalizing meter
					CCR, Title 17, Section 93115.10(g)	M	Records
SO ₂	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A

Table VII — ADC.3.2

Applicable Limits and Compliance Monitoring Requirements

~~S952-INTERNAL COMBUSTION ENGINE; 9580 CUBIC INCH DISPLACEMENT, 300 HP, NO. 1 GAS PLANT VAPOR COMPRESSOR NO. 4023,~~

~~S953-INTERNAL COMBUSTION ENGINE; CLARK, 9580 CUBIC INCH DISPLACEMENT, 300 HP, NO. 1 GAS PLANT VAPOR COMPRESSOR NO. 4024, NATURAL GAS FIRED,~~

~~S954-INTERNAL COMBUSTION ENGINE; CLARK, 9580 CUBIC INCH DISPLACEMENT, 300 HP, NO. 1 GAS PLANT VAPOR COMPRESSOR NO. 4025, NATURAL GAS FIRED~~

SPARK IGNITION, 4 STROKE, Rich Burn Engines

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	Y		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	None	N	None/N/A
<u>Visible Emissions</u>	SIP 6-301	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6-1-310	Y N		0.15 grain/dscf	None	N	None/N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
NOx	BAAQMD 9-8-301.1	Y	07/31/05	56 ppmv, dry, at 15% oxygen	BAAQMD Condition 19528 part 79-8-503	<u>P/Quarterly</u> Twice-per year	Source Test <u>Portable Analyzer Monitoring</u>
			1/1/2012	25 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	<u>P/Quarterly</u>	<u>Portable Analyzer Monitoring</u>
NOx	SIP 9-8-301.1	<u>Y</u>		56 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	<u>P/Quarterly</u>	<u>Portable Analyzer Monitoring</u>
CO	BAAQMD 9-8-301.3	<u>Y</u>	07/31/05	2000 ppm ppmv, dry, at 15% oxygen	BAAQMD Condition 19528 part 79-8-503	<u>P/Quarterly</u> Twice-per year	Source Test <u>Portable Analyzer Monitoring</u>
<u>SO2</u>	<u>BAAQMD 9-1-304</u>	<u>Y</u>			<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – AEC.3.3

Applicable Limits and Compliance Monitoring Requirements

~~S955-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4064, NATURAL GAS FIRED,~~
~~S956-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 800 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4065, NATURAL GAS FIRED,~~
~~S957-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4066, NATURAL GAS FIRED,~~
~~S958-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 800 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4067, NATURAL GAS FIRED,~~
~~S959-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4068, NATURAL GAS FIRED,~~
~~S960-INTERNAL COMBUSTION ENGINE; CLARK, 12900 CUBIC INCH DISPLACEMENT, 660 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4096, NATURAL GAS FIRED~~
SPARK IGNITION, 24-STROKE, LEAN BURN ENGINES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	Y		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann 1 for > 3 minutes in any hour or equivalent opacity</u>	<u>None</u>	<u>N</u>	<u>NoneN/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	BAAQMD 6-1-310	Y N		0.15 grain/dscf	<u>None</u>	<u>N</u>	<u>NoneN/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>NOx</u>	BAAQMD 9-8-301.2	Y N	07/31/05	140 ppmv, dry, at 15% oxygen	Condition 19528 part 79-8-503	<u>P/ Quarterly</u> Twice per year	<u>Source Test Portable Analyzer Monitoring</u>
			1/1/2012	65 ppmv, dry, at 15% oxygen	<u>BAAQMD 9-8-503</u>	<u>P/ Quarterly</u>	<u>Portable Analyzer Monitoring</u>
<u>NOx</u>	<u>SIP 9-8-301.2</u>	<u>Y</u>		<u>140 ppmv, dry at 15% oxygen</u>	<u>BAAQMD 9-8-503</u>	<u>P/ Quarterly</u>	<u>Portable Analyzer Monitoring</u>

Table VII – AE C.3.3

Applicable Limits and Compliance Monitoring Requirements

~~S955-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4064, NATURAL GAS FIRED,~~
~~S956-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 800 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4065, NATURAL GAS FIRED,~~
~~S957-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4066, NATURAL GAS FIRED,~~
~~S958-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 800 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4067, NATURAL GAS FIRED,~~
~~S959-INTERNAL COMBUSTION ENGINE; CLARK, 17200 CUBIC INCH DISPLACEMENT, 880 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4068, NATURAL GAS FIRED,~~
~~S960-INTERNAL COMBUSTION ENGINE; CLARK, 12900 CUBIC INCH DISPLACEMENT, 660 HP, NO. 4 GAS PLANT COMPRESSOR NO. 4096, NATURAL GAS FIRED~~

SPARK IGNITION, 24-STROKE, LEAN BURN ENGINES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-8-301.3	Y	07/31/05	2000 ppmv, dry, at 15% oxygen	BAAQMD Condition 19528 part 79-8-503	P/ <u>Quarterly</u> <u>Twice per year</u>	Source Test Portable Analyzer Monitoring
<u>SO2</u>	<u>BAAQMD 9-1-304</u>	<u>Y</u>			<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – De C.3.4

Applicable Limits and Compliance Monitoring Requirements

Source-specific Applicable Requirements

~~S1469 EMERGENCY STANDBY DIESEL ENGINE, AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED~~
~~S1471 EMERGENCY STANDBY DIESEL ENGINE LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED,~~
~~S1472 EMERGENCY STANDBY DIESEL ENGINE TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED,~~
~~S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL ENGINE TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,~~
~~S1476 PORTABLE EMERGENCY STANDBY DIESEL ENGINE TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-303.1+	Y N		> Ringelmann No. 2 for no more than 3 minutes/hour Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	N one	N	None N/A
<u>Visible Emissions</u>	SIP 6-303.1	Y		> Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
FP <u>Visible Particles</u>	BAAQMD 6-1-305	Y N		Prohibition of nuisance	None	N	None N/A
<u>VP</u> Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	Y N		0.15 grain/dscf	N one	N	None N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
<u>SO2</u>	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A
<u>Hours of operation</u>	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
<u>Hours of operation</u>	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reli reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
<u>Hours of operation</u>	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
					CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Meter
<u>Hours of operation</u>	BAAQMD Condition 22851, Part 1	N		< 34 hours/year for reliability-related activities	BAAQMD Condition 22851, Part 3	C	Totalizing meter

Table VII – ~~De~~C.3.4
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

~~S1469 EMERGENCY STANDBY DIESEL ENGINE, AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL ENGINE LANDSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL ENGINE TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL ENGINE TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL ENGINE TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					<u>BAAQMD Condition 22851, Part 4</u>	<u>M</u>	<u>Records</u>
S1469, S1471, S1472, S1474, S1477, S1486							
Hours of operation	<u>BAAQMD Condition 18946 Part 1</u>	<u>N</u>		<u>up to 100 hour/yr (non-emergency)</u>	<u>BAAQMD Condition 18946, Part 4</u>	<u>C</u>	<u>totalizing meter</u>
<u>Hours of operation</u>	<u>40 CFR 63.6640(f)(1) 63.6640(f)(4)</u>	<u>Y</u>	<u>5/3/2013</u>	<u>< 50 hours/year for non-emergency operation</u>	<u>40 CFR 63.6625(f)</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>40 CFR 63.6655(f) 63.6660</u>	<u>M</u>	<u>Records</u>
<u>Hours of operation</u>	<u>40 CFR 63.6640(f)(3)</u>	<u>Y</u>	<u>5/3/2013</u>	<u>< 100 hours/year for maintenance checks and readiness testing required by Federal, state or local government or manufacturer</u>	<u>40 CFR 63.6625(f)</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>40 CFR 63.6655(f) 63.6660</u>	<u>M</u>	<u>Records</u>
<u>Idle during Startup</u>	<u>40 CFR 63.6625(h) 40 CFR 63 Subpart ZZZZ, Table 2c.1</u>	<u>Y</u>	<u>5/3/2013</u>	<u><30 minutes</u>	<u>40 CFR 63.6625(f)</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>40 CFR 63.6655(f) 63.6660</u>	<u>M</u>	<u>Records</u>

Table VII – DeC.3.4
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

~~S1469 EMERGENCY STANDBY DIESEL ENGINE, AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 EMERGENCY STANDBY DIESEL ENGINE, LANSEND FIRE WATER PUMP ENGINE; DIESEL FIRED, S1472 EMERGENCY STANDBY DIESEL ENGINE, TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED, S1474 EMERGENCY STANDBY DIESEL ENGINE, S1477 EMERGENCY STANDBY DIESEL ENGINE, S1486 EMERGENCY STANDBY DIESEL ENGINE, S1475 PORTABLE EMERGENCY STANDBY DIESEL ENGINE, TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED, S1476 PORTABLE EMERGENCY STANDBY DIESEL ENGINE, TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Work and Maintenance Practices</u>	<u>40 CFR 63.6602</u> <u>40 CFR 63.6625(i)</u> <u>40 CFR 63 Subpart ZZZZ, Table 2c.1</u>	<u>Y</u>	<u>5/3/2013</u>	<u>Oil change; inspect air cleaner; inspect belts and hoses; OPTIONAL oil analysis program</u>	<u>40 CFR 63.6625(i)</u> <u>40 CFR 63 Subpart ZZZZ, Table 2c.1</u>	<u>P/A or as specified in 40 CFR 63 Subpart ZZZZ, Table 2c.1</u>	<u>Manufacturer's written instructions or Owner's Maintenance Plan</u>
Hours of operation	BAAQMD 9-8-330	N		up to 100 hours for reliability testing	BAAQMD 9-8-530	€	totalizing meter
S1475 and S1476							
Hours of operation	BAAQMD Condition 18947 Part 5	N		up to 50 hour/yr	BAAQMD Condition 18947, Part 10	P/weekly	records
<u>Sulfur Content</u>	<u>BAAQMD Condition 18947, Part 6</u>	<u>Y</u>		<u>0.0015% by weight</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Throughput Fuel Use</u>	BAAQMD Condition 18947, Part 4	<u>YN</u>		<u>Consume no more than 1315 gallons of diesel/fuel per consecutive 12 month period</u>	BAAQMD Condition 18947, Part 10	P/weekly	records

Table VII - C.3.5

Facility B2759

Applicable Limits and Compliance Monitoring Requirements

S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE

S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>CO (S1487)</u>	<u>BAAQMD Condition 20672, Part A6</u>	<u>Y</u>		<u>1.71 g/bhp-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>CO (S1488)</u>	<u>BAAQMD Condition 20672, Part B6</u>	<u>Y</u>		<u>1.15 g/bhp-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Hours of operation</u>	<u>BAAQMD 9-8-330.2</u>	<u>N</u>		<u>< 100 hours/year for reliability-related activities</u>	<u>BAAQMD 9-8-530</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>BAAQMD 9-8-520.1 & 9-8-530</u>	<u>M</u>	<u>Records</u>
<u>Hours of operation</u>	<u>BAAQMD 9-8-330.3</u>	<u>N</u>	<u>1/1/2012</u>	<u>< 50 hours/year for reliability-related activities</u>	<u>BAAQMD 9-8-530</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>BAAQMD 9-8-520.1 & 9-8-530</u>	<u>M</u>	<u>Records</u>
<u>Hours of operation (S1487)</u>	<u>CCR, Title 17, Section 93115.3(n)</u>	<u>N</u>		<u>< 34 hours/year for maintenance and testing</u>	<u>CCR, Title 17, Section 93115.10(g)</u>	<u>M</u>	<u>Records</u>
<u>Hours of operation, PM (S1488)</u>	<u>CCR, Title 17, Section 93115.6(b)(3)(A)(1)(b)</u>	<u>N</u>		<u>< 30 hours/year for maintenance and testing, if PM ≤ 0.40 g/bhp-hr</u>	<u>CCR, Title 17, Section 93115.10(e)(1)</u>	<u>C</u>	<u>Totalizing meter</u>
<u>Hours of operation, PM (S1488)</u>	<u>CCR, Title 17, Section 93115.6(b)(3)(A)(2)(b)</u>	<u>N</u>		<u>< 50 hours/year for maintenance and testing, if PM ≤ 0.01 g/bhp-hr & < 0.15 g/bhp-hr</u>	<u>CCR, Title 17, Section 93115.10(e)(1)</u>	<u>C</u>	<u>Totalizing meter</u>

Table VII - C.3.5

Facility B2759

Applicable Limits and Compliance Monitoring Requirements

S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE

S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Hours of operation</u>	<u>BAAQMD Condition 22851, Part 1</u>	<u>Y</u>		<u><34 hours/year for reliability related activities</u>	<u>BAAQMD Condition 22851, Part 3</u>	<u>C</u>	<u>Totalizing meter</u>
					<u>BAAQMD Condition 22851, Part 4</u>	<u>M</u>	<u>Records</u>
<u>NOx (S1487)</u>	<u>BAAQMD Condition 20672, Part A5</u>	<u>Y</u>		<u>9.65 g/bhp-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>NOx (S1488)</u>	<u>BAAQMD Condition 20672, Part B5</u>	<u>Y</u>		<u>8.0 g/bhp-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>PM10 (S1488)</u>	<u>BAAQMD Condition 20672, Part B7k</u>	<u>Y</u>		<u>0.22 g/bhp-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>SO2</u>	<u>BAAQMD 9-1-304</u>	<u>Y</u>		<u>0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Sulfur Content (S1487)</u>	<u>B AAQMD Condition 20672, Part A8</u>	<u>Y</u>		<u>15 ppmw</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions (S1488)</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions (S1487)</u>	<u>BAAQMD 6-1-303.1</u>	<u>N</u>		<u>≥ Ringelmann No. 2 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII - C.3.5

Facility B2759

Applicable Limits and Compliance Monitoring Requirements

S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE

S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Visible Emissions (S1488)</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions (S1487)</u>	<u>SIP 6-303.1</u>	<u>Y</u>		<u>> Ringelmann No.2 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII -- ~~Dh~~C.3.67

Applicable Limits and Compliance Monitoring Requirements

S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED

S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED

EMERGENCY DIESEL FIREWATER PUMPS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>NMHC + NOx</u>	<u>40 CFR 60.4205(c)</u>	<u>Y</u>		<u>7.8 g/bhp-hr</u>	<u>40 CFR 60.4211(a)</u>	<u>C</u>	<u>Operate and maintain per mfg instructions</u>
<u>CO</u>	<u>40 CFR 60.4205(c)</u>	<u>Y</u>		<u>2.6 g/bhp-hr</u>	<u>40 CFR 60.4211(a)</u>	<u>C</u>	<u>Operate and maintain per mfg instructions</u>

Table VII -- ~~Dh~~C.3.67

Applicable Limits and Compliance Monitoring Requirements

S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED
S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED--
EMERGENCY DIESEL FIREWATER PUMPS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	40 CFR 60.4205(c)	Y		0.40 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
SO ₂	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO ₂	40 CFR 60.4207(b)	Y	10/1/2010	Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions Opacity	BAAQMD 6-1-303.1+	Y N		> Ringelmann No. 2 for no more than 3 minutes/hour Ringelmann for no more than 3 minutes in any hour or equivalent opacity	None	N	NoneN/A
Visible Emissions	SIP 6-303.1	Y		> Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
VP Visible Particles F	BAAQMD 6-1-305	N Y		Prohibition of nuisance	None	N	NoneN/A
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	None	N	NoneN/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

Table VII — ~~Dh~~C.3.67

Applicable Limits and Compliance Monitoring Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED
S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED—
EMERGENCY DIESEL FIREWATER PUMPS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm Fuel Sulfur Limit 15ppmw	None	N	None
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6(b)(3)(A)(2)(b) 2	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211(e)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	BAAQMD Condition 23811, Part 1 BAAQMD 9-8-330	N		50 hours/year each engine (non-emergency)	BAAQMD Condition 23811, Part 34a BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD Condition 23811, Part 4	M	Records

Table VII — ~~Dh~~C.3.67
Applicable Limits and Compliance Monitoring Requirements
S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED
S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED—
EMERGENCY DIESEL FIREWATER PUMPS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	BAAQMD Condition 23811, Part 2	N		Unlimited hours (emission testing to show compliance with emission limits.)	BAAQMD Condition 23811, Part 4b	C	totalizing meter
Hours of operation	BAAQMD Condition 23811, Part 2 BAAQMD 9-8-330	N		Unlimited hours (emergency)	BAAQMD Condition 23811, Part 4e BAAQMD 9-8-530	C	totalizing meter
Fuel Use	None	N		None	BAAQMD Condition 23811, Part 4e	P/M	Records

SECTION C.4 COMBUSTION - PROCESS HEATERS AND FURNACES

Table VII – C.4.1X

Applicable Limits and Compliance Monitoring Requirements

~~S902-FCC START UP HEATER, 85 MMBTU/HR, REFINERY FUEL GAS, NATURAL GAS~~

~~S905-NO. STACK HEATER; NO. 6 BOILERHOUSE (FOR START UP ONLY), 47~~

~~MMBTU/HR, REFINERY FUEL GAS~~

~~S923-COKER AUXILIARY BURNER (START UP USE ONLY), 170 MMBTU/HR, REFINERY~~

~~FUEL GAS, NATURAL GAS~~

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
NO _x	BAAQMD 9-10-112	Y		Low Fuel Usage	BAAQMD 9-10-502.2	C	Record keeping
NO _x	BAAQMD 9-10-306	Y		Small Unit Requirements	BAAQMD 9-10-502.2	C	Record keeping
H2S	BAAQMD Condition 23562, Part 1 40 CFR 60 Subpart J 60.104(a)(1) 60.105(e)(4)(ii)	Y	12/31/2010	160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VP Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 18 (S927)	C	CEM
					BAAQMD 9-10-502 Condition 18372, Part 33.A.1 (S915, S928, S929, S930, S931, S932, S933)	P/Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.2 (S909, S912, S913, S916, S920, S921, S926)	P/ Twice per year	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S908, S922, S934, S935, S937)	P/ Semi-annual	Source Test

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>CO</u>	<u>BAAQMD Condition 8077, Part B7A (S908)</u>	<u>Y</u>		<u>50 ppmvd/ 3-hr avg. corrected to 3% O2)</u>	<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S908)</u>	<u>P/ Semi-annual</u>	<u>Source Test</u>
<u>CO</u>	<u>BAAQMD Condition 8077, Part B7A (S922, S927, S934, S935)</u>	<u>Y</u>		<u>50 ppmvd/ 8-hr avg. corrected to 3% O2)</u>	<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 18 (S927)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S922, S934, S935)</u>	<u>P/ Semi-annual</u>	<u>Source Test</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Fuel Flow Firing Rate</u>	<u>Title V Permit Table IIA.1</u>	<u>Y</u>		<u>S- MM Btu/hr MM Btu/dayMM Btu/yr</u>	<u>BAAQMD 9-10-502.2</u>	<u>C</u>	<u>Fuel Flowmeter</u>

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>			<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	BAAQMD Condition 166858372, Part 127			908	220	5,280 1,927,200			
				909	145	3,480 1,270,200			
				912	135	3,240 1,182,600			
				913	59	1,416 516,840			
				915	20	480 175,200			
				916	55	1,320 481,800			
				920	63	1,512 551,880			
				921	63	1,512 551,880			
				922	130	3,120 1,138,800			
				926	145	3,480 1,270,200			
				927	280	6,720 2,452,800			
				928	20	480 175,200			
				929	20	480 175,200			
			930	20	480 175,200				

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>			<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
				931	20	480 175,200			
				932	20	480 175,200			
				933	20	480 175,200			
				934	152	3,648 1,331,520			
				935	152	3,648 1,331,520			
				937	743	17,832 6,508,680			
<u>Fuel Flow (S916, S921)</u>	<u>BAAQMD Condition 17322, Part 9</u>	<u>Y</u>		<u>55 MMBtu/hr (S916) 63 MMBtu/hr (S921)</u>			<u>BAAQMD 9-10-502.2</u>	<u>C</u>	<u>Fuel Flowmeter</u>
<u>Fuel Flow Firing Rate (S908)</u>	<u>BAAQMD Condition 18539, Part 18A</u>	<u>Y</u>		<u>1,927,200 MMBtu, consecutive 365-day period</u>			<u>BAAQMD 9-10-502.2</u>	<u>C</u>	<u>Fuel Flowmeter</u>
<u>H2S [in fuel gas]</u>	<u>BAAQMD Condition 23562, Part 1 40 CFR 60.104(a)(1) 60.105(e)(3) (ii)</u>	<u>Y</u>	<u>12/31/2010 (S908, S909, S912)</u>	<u>160 ppmv, dry, 3 hour rolling average</u>			<u>BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)</u>	<u>C</u>	<u>CEM</u>

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE

NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NH3 slip (S908)	BAAQMD Condition 18539, Part 16	Y		20 ppmv. dry, corrected to 3% O ₂ , 3-hr average	BAAQMD Condition 18539, Part 16	P/Annual	Source Test
NH3 slip (S927)	BAAQMD Condition 18372, Part 22	Y		20 ppmv. dry, corrected to 3% O ₂	None	N	N/A
NOx	BAAQMD 9-10-301 BAAQMD Condition 18372, Part 27	Y		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU	(S909, S912, S913, S915, S916, S920, S921, S926, S928, S929, S930, S931, S932, S933) BAAQMD Condition 18372, Part 33.A.2	P/ Twice per year	Source Test
					(S908, S922, S927, S933, S934, S935, S937) BAAQMD Condition 18372, Part 27	C	CEM

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx	BAAQMD 9-10-303 BAAQMD Condition 18372, Part 27	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	(S909, S912, S913, S915, S916, S920, S921, S926, S928, S929, S930, S931, S933, S932) BAAQMD Condition 18372, Part 33.A.2	P/ Twice per year	Source Test
					(S908, S922, S927, S933, S934, S935, S937) BAAQMD Condition 18372, Part 27	C	CEM
NOx (S937)	BAAQMD Condition 677, Part 1	Y		1430 lbs/stream day or 1089 lbs/calendar day	BAAQMD Condition 677, Part 2	C	CEM
NOx (S908)	BAAQMD Condition 8077, Part B7A	Y		10 ppmvd/ 3-hr avg. corrected to 3% O ₂	BAAQMD Condition 8077, Part B4B	C	CEM
NOx (S922, S934, S935)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O ₂	BAAQMD Condition 8077, Part B4B	C	CEM

Table VII – C.4.2

Applicable Limits and Compliance Monitoring Requirements

S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx	<u>Condition 18372, Part 3</u>	N		<u>Operate within specified NOx box</u>	<u>Condition 18372, Part 32</u>	<u>P/E (on NOx box deviation)</u>	<u>Source Test</u>
O2		N		<u>No limit</u>	<u>BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28</u>	<u>C</u>	<u>CEM</u>
<u>TRS (S916)</u>	<u>BAAQMD Condition 21186, Part 3</u>	Y		<u>300 ppmvd</u>	<u>BAAQMD Condition 21186, Part 1</u>	<u>P/ Each day</u>	<u>TRS Sample</u>
<u>TRS (S916)</u>	<u>BAAQMD Condition 21186, Part 4</u>	Y		<u>281 ppmvd, annual average</u>	<u>BAAQMD Condition 21186, Part 1</u>	<u>P/ Each day</u>	<u>TRS Sample</u>
<u>TRS (S913)</u>		Y		<u>No Limit</u>	<u>BAAQMD Condition 22621, Part 7</u>	<u>P/ Each day</u>	<u>TRS Sample</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	N		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	Y		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	N		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-1-305</u>	Y		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 20 (S971)	C	CEM
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 21 (S972)	C	CEM
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.1 (S917)	P/ Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.2 (S919, S951)	P/ Twice per Consecutive 12-month period	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S973, S974)	P/ Semi- annual	Source Test

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>CO</u>	<u>BAAQMD Condition 8077, Part B7A (S917, S919, S971, S972, S973, S974)</u>	<u>Y</u>		<u>50 ppmvd/ 8-hr avg. corrected to 3% O2)</u>	<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 20 (S971)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 21 (S972)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD Condition 8077, Part B7D (S917, S919)</u>	<u>P/Semi-Annual</u>	<u>Source Test</u>
					<u>BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S973, S974)</u>	<u>P/ Semi-annual</u>	<u>Source Test</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>			<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
				<u>S-#</u>	<u>MM Btu/hr</u>	<u>MM Btu/dayMM Btu/yr</u>			
<u>Fuel Flow Firing Rate</u>	<u>Title V Permit Table IIA, BAAQMD Condition 166858372, Part 127</u>	<u>Y</u>		<u>917</u>	<u>18</u>	<u>432</u> <u>157,680</u>	<u>BAAQMD 9-10-502.2</u>	<u>C</u>	<u>Fuel Flowmeter</u>
				<u>919</u>	<u>65</u>	<u>1,560</u> <u>569,400</u>			
				<u>951</u>	<u>30</u>	<u>720</u> <u>131,400</u>			
				<u>971</u>	<u>300</u>	<u>7,200</u> <u>262,800</u>			
				<u>972</u>	<u>45</u>	<u>1,080</u> <u>394,200</u>			
				<u>973</u>	<u>55</u>	<u>1,320</u> <u>481,800</u>			
				<u>974</u>	<u>110</u>	<u>2,640</u> <u>963,600</u>			
				<u>Firing Rate Fuel Flow (S973, S974)</u>	<u>BAAQMD Condition 8077, Part B7B</u>	<u>Y</u>			
<u>H2S</u>	<u>40 CFR 60.104(a)(1) 60.105(e)(3)(ii)</u>	<u>Y</u>		<u>160 ppmv, dry, 3 hour rolling average</u>			<u>40 CFR 60.105(a)(4)</u>	<u>C</u>	<u>CEM</u>
<u>NH3 slip (S971, S972)</u>	<u>BAAQMD Condition 18372, Part 22</u>	<u>Y</u>		<u>20 ppmv, dry, corrected to 3% O2</u>			<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. -55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>NOx</u>	<u>BAAQMD</u> <u>9-10-301</u>	<u>N</u>		<u>Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU</u>	<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>8077, Part B4B</u> <u>(S973, S974)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part</u> <u>33.A.1</u> <u>(S917)</u>	<u>P/Annual</u>	<u>Source Test</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part</u> <u>33.A.2</u> <u>(S919, S951)</u>	<u>P/ Twice</u> <u>per</u> <u>consecutive</u> <u>12-month</u> <u>period</u>	<u>Source Test</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part 20</u> <u>(S971)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part 21</u> <u>(S972)</u>	<u>C</u>	<u>CEM</u>

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>NOx</u>	<u>BAAQMD</u> <u>9-10-303</u>	<u>Y</u>		<u>Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU</u>	<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>8077, Part B4B</u> <u>(S973, S974)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part</u> <u>33.A.1</u> <u>(S917)</u>	<u>P/Annual</u>	<u>Source Test</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part</u> <u>33A2</u> <u>(S919, S951)</u>	<u>P/ Twice per consecutive 12-month period</u>	<u>Source Test</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part 20</u> <u>(S971)</u>	<u>C</u>	<u>CEM</u>
					<u>BAAQMD</u> <u>9-10-502</u> <u>BAAQMD</u> <u>Condition</u> <u>18372, Part 21</u> <u>(S972)</u>	<u>C</u>	<u>CEM</u>

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NOx (S917, S919)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 18372, Part 33.A.1 (S917) BAAQMD Condition 8077, Part B7D (S917, S919)	P/Semi Annual	Source Test
					BAAQMD Condition 18372, Part 33.A.2 (S919)	P/ Twice per consecutive 12-month period	Source Test
NOx (S971, S972)	BAAQMD Condition 8077, Part B7A	Y		75 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 18372, Part 20 (S971)	C	CEM
					BAAQMD Condition 18372, Part 21 (S972)	C	CEM
NOx (S973, S974)	BAAQMD Condition 8077, Part B7A	Y		40 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B4B	C	CEM
NOx	Condition 18372, Part 3	N		Operate within specified NOx box	Condition 18372, Part 32	P/E (on NOx box deviation)	Source Test

Table VII – C.4.3

Applicable Limits and Compliance Monitoring Requirements
S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S971–No. 53
FURNACE, S972–No. 54 FURNACE, S973–No. -55 FURNACE, S974–No. 56 FURNACE
NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>O₂</u>	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28</u>	<u>C</u>	<u>CEM</u>
<u>TRS (S917)</u>	<u>BAAQMD Condition 21186, Part 3</u>	<u>Y</u>		<u>300 ppmvd, daily</u>	<u>BAAQMD Condition 21186, Part 1</u>	<u>P/ Once per day</u>	<u>TRS Sample</u>
<u>TRS (S917)</u>	<u>BAAQMD Condition # 21186, Part 4</u>	<u>Y</u>		<u>281 ppmvd, annual average</u>	<u>BAAQMD Condition 21186, Part 1</u>	<u>P/ Once per day</u>	<u>TRS Sample</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP Visible Particles</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – AC1C.4.4
 Applicable Limits and Compliance Monitoring Requirements
 S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562
SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)
; CRUDE HEATER, 440 MMBTU/HR, REFINERY FUEL GAS, NATURAL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>NH3 slip</u>	<u>BAAQMD Condition 18372, Part 22</u>	<u>Y</u>		<u>20 ppmv, dry, corrected to 3% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
NOx	BAAQMD 9-10-301 <u>BAAQMD Condition 18372, Part 27</u>	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502 <u>BAAQMD Condition 18372, Part 19</u>	C	CEM
<u>NOx</u>	<u>BAAQMD 9-10-302</u>	<u>Y</u>		<u>Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU</u>	<u>BAAQMD 9-10-502</u>	<u>C</u>	<u>CEM</u>
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 <u>BAAQMD Condition 18372, Part 19</u>	C	CEM
O2		N		No limit	BAAQMD 9-10-502 <u>BAAQMD Condition 18372, Part 19</u>	C	CEM
CO	BAAQMD 9-10-305	N	<u>12/1/04</u>	400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502 <u>and BAAQMD Condition 18372, Part 19 34</u>	<u>C</u> <u>P/twice per year</u>	<u>CEM</u> <u>Source test</u>

**Table VII – AC1C.4.4
 Applicable Limits and Compliance Monitoring Requirements
 S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562
SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)
; CRUDE HEATER, 440 MMBTU/HR, REFINERY FUEL GAS, NATURAL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	<u>None</u>	N	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	<u>None</u>	N	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Fuel Flow	<u>Title V Permit Table IIA</u>	Y		<u>440 MMBtu/hr</u> <u>3,854,400 MMBtu/yr</u> <u>No limit</u>	BAAQMD 9-10-502.2	C	Fuel Flowmeter
<u>TOC</u>	<u>40 CFR 61.349(a)(2)(i)(B)</u>	<u>Y</u>		<u>20 ppmv, dry, corrected to 3% O2</u>	<u>BAAQMD Condition 7410, Part 6</u>	<u>C</u>	<u>Temperature monitoring</u>
VOC	BAAQMD <u>Condition # 7410, Part 3</u>	Y		20 ppm as C1 in stream from S606 and S607 to from S950, rolling hourly average	<u>BAAQMD Condition # 7410, Part 6</u>	C	Temperature monitoring
<u>VOC</u>	<u>40 CFR 61.349(a)(1)(i)</u>	<u>Y</u>		<u>No detectable emissions (< 500 ppmv) from closed vent system</u>	<u>40 CFR 61.349(a)(i)</u>	<u>P/ Annual</u>	<u>Instrument</u>
<u>VOC</u>	<u>40 CFR 61.349(a)(2)(i)(A)</u> <u>61.349(a)(2)(ii)</u>	<u>Y</u>		<u>95 weight % reduction</u>	<u>BAAQMD Condition 7410, Part 6</u>	<u>C</u>	<u>Temperature monitoring</u>

**Table VII – AC1C.4.4
 Applicable Limits and Compliance Monitoring Requirements
 S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562
SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)
; CRUDE HEATER, 440 MMBTU/HR, REFINERY FUEL GAS, NATURAL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S (in fuel gas)	BAAQMD Condition 23562, Part 1 40 CFR 60 Subpart J 60.104(a)(1) 60.105(e)(4 3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
H2S	BAAQMD Condition # 7410, Part 4	Y		1 ppm in stream from S606 and S607 to from S950, rolling hourly average	BAAQMD Condition # 7410, Part 6	C	Temperature monitoring
Residence Time	40 CFR 61.349(a)(2)(i)(C)	Y		0.5 seconds @ > 760 C (1400 F)	40 CFR 61.349(c)(1) 61.356(f)(1) 61.356(f)(2)	C	Engineering Calculations and Records
Temperature	BAAQMD Condition # 7410, Part 5	Y		> 1500° F at S950	BAAQMD Condition # 7410, Part 6	C	Temperature monitoring
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VP Visible Particles	BAAQMD 6-1-310	N		Prohibition of nuisance	None	N	N/A
VP Visible Particles	SIP 6-310	Y		Prohibition of nuisance	None	N	N/A

Table VII – AOC.4.5
Applicable Limits and Compliance Monitoring Requirements
S1412- SULFURIC ACID PLANT START-UP HEATER, 7.3 MMBTU/HR, NATURAL GAS,
REFINERY FUEL GAS
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O₂)	BAAQMD 9-10-502	P/Once every three years	Source Test
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
Opacity	BAAQMD 6-1-301	N		Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	None	N	N/A
Operating Hours	BAAQMD 9-10-306.2	Y		Small Unit Exemption: Tune every 12 months		P/A	Tune-up per Reg. 9-10-605
H ₂ S (in fuel gas)	BAAQMD Condition 23562, Part 1 40 CFR 60 Subpart J 60.104(a)(1) 60.105(e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H ₂ S analyzer on fuel gas

Table VII – AOC.4.5
Applicable Limits and Compliance Monitoring Requirements
S1412- SULFURIC ACID PLANT START-UP HEATER, 7.3 MMBTU/HR, NATURAL GAS,
REFINERY FUEL GAS
NSPS SUBPART J BY CONSENT DECREE CONDITION 23562

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>VP</u> Visible Particles	<u>BAAQMD</u> <u>6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VP</u> Visible Particles	<u>SIP</u> <u>6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

TABLE VII – ~~AIC.4.6~~
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S1106-No. 72 FURNACE, No. 4 HDS FEED REACTOR HEATER, ~~30 MMBTU/HR, NATURAL~~
~~GAS~~
S1470-No. 71 FURNACE
NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 slip	BAAQMD Condition 18539, Part 16 (S1470) BAAQMD Condition 19199 Part H10 (S1106)	Y		20 ppmv (dry @ 3% O2) avg. over any 3-hr period	None	N	N/A
NOx	BAAQMD Condition 18539, Part 10 (S1470) BAAQMD Condition 19199 Part H4 (S1106)	Y		10 ppmv (dry, 3% O ₂)	BAAQMD Condition 18539, Part 8 (S1470) BAAQMD Condition 19199 Part H11 (S1106)	C	CEM
O2 (S1106)	No limit	Y		No limit	BAAQMD Condition 19199 Part H11	C	CEM

TABLE VII – AIC.4.6
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, ~~30 MMBTU/HR, NATURAL~~
GAS
S1470-NO. 71 FURNACE
NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 18539, Part 11 (S1470) BAAQMD Condition 19199 Part H5 (S1106)	Y		50 ppmv (dry, 3% O ₂), three-hour average	BAAQMD Condition 18539, Part 17A (S1470) BAAQMD Condition 19199 Part H12 (S1106)	P Once per year/ <u>A</u>	Source test
FP	BAAQMD 6-1-310	N <u>Y</u>		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	<u>Y</u>		0.15 grain/dscf	None	<u>N</u>	N/A
FP	BAAQMD 6-1-310.3	N <u>Y</u>		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	<u>Y</u>		0.15 grain/dscf @ 6% O₂	None	<u>N</u>	N/A
H ₂ S (in fuel gas)	40 CFR-60 Subpart J 60.104(a)(1) 60.105(e)(3)(4) (ii)	Y		160 ppmv, dry, 3 hour rolling average	40 CFR 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
Fuel Flow (S1470)	BAAQMD Condition 18539, Part 9			262,800 MMBtu/rolling, consecutive 12-month period	BAAQMD Condition 18539, Parts 2, 3A	<u>C</u>	Fuel flow meter and calorimeter
Fuel Flow (S1106)	BAAQMD Condition 19199 Part H0	<u>Y</u>		30 MMBtu/hr averaged over each calendar day	BAAQMD Condition 19199 Part H2	<u>C</u>	Fuel flow meter

TABLE VII – AIC.4.6
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, ~~30 MMBTU/HR, NATURAL~~
GAS
S1470-NO. 71 FURNACE
NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10

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 (S1106)	BAAQMD Condition 19199 Part H3	Y		225.257 MM SCF/yr	BAAQMD Condition 19199 Part H2	C	Fuel Flow meter
PM10 (S1470)	BAAQMD Condition 18539, Part 13	Y		0.946 ton/ rolling consecutive 12- month period	None	N	N/A
PM10 (S1106)	BAAQMD Condition 19199 Part H7	Y		0.856 ton/ rolling consecutive 12- month period	None	N	N/A
POC (S1470)	BAAQMD Condition 18539, Part 12	Y		0.683 ton/ rolling consecutive 12- month period	None	N	N/A
POC (S1106)	BAAQMD Condition 19199 Part H6	Y		0.619 ton/rolling consecutive 12- month period	None	N	N/A
SO2 (S1470)	BAAQMD Condition 18539, Part 14	Y		1.793 tons/ rolling consecutive 12- month period	None	N	N/A
SO2 (S1106)	BAAQMD Condition 19199, Part H8	Y		0.068 ton/ rolling consecutive 12- month period	None	N	N/A
TRS (S1470)	BAAQMD Condition 18539, Part 4	Y		35 ppmv, rolling 365 day average when firing refinery fuel gas	BAAQMD Condition 18539, Part 6	P/ 4 times per hour	TRS Analyzer

TABLE VII – ~~AIC.4.6~~
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, ~~30 MMBTU/HR, NATURAL~~
GAS
S1470-NO. 71 FURNACE
NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>TRS (S1470)</u>	<u>BAAQMD Condition 18539, Part 5</u>	<u>Y</u>		<u>100 ppmv, rolling 24 hour average when firing refinery fuel gas</u>	<u>BAAQMD Condition 18539, Part 6</u>	<u>P/ 4 times per hour</u>	<u>TRS Analyzer</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – ~~XX2C.4.7~~
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER HEATERS
ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS
S-1511 (~~HEATER #1 F78~~-ABATED BY A-1511)
S-1512 (~~HEATER #2 F79~~-ABATED BY A-1512)

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission-Limit Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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Table VII – ~~XX2C.4.7~~
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER HEATERS
ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS
S-1511 (~~HEATER #1 F78~~-ABATED BY A-1511)
S-1512 (~~HEATER #2 F79~~-ABATED BY A-1512)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions Opacity	BAAQMD 6-1-301	N Y		> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1 except for 3 minutes in every consecutive 60 minute period	None	N	NA
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VP Visible Particles PM	BAAQMD 6-1-305	N Y		p Prohibition of nuisance fallout	None	N	NA
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-310 6-1-310.3	N Y		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	BAAQMD 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	NA
TRS	Condition #23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition #23129, Part 19	C	CEM
TRS	Condition #23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition #23129, Part 26	P/E	Initial source tests (fuel gas firing only)
TRS	Condition #23129, Part 11	Y		35 ppmv TRS in fuel gas (365 day average)	Condition #23129, Part 19	C	CEM

Table VII – ~~XX2C.4.7~~
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER HEATERS
ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS
S-1511 (HEATER #1 F78-ABATED BY A-1511)
S-1512 (HEATER #2 F79-ABATED BY A-1512)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Sulfur	Condition 23129, Parts 15, 16	Y		1.0 gr/100 scf in natural gas	Condition 23129, Parts 15, 16	None	Records
SAM	Condition #23129, Part 17 BAAQMD 2-2-306	Y		38 lb/day (annual average)	Condition #23129, Part 26	P/E	Initial source tests (fuel gas firing only)
H2S	Condition #23129, Part 18 40 CFR 60.104(a)(1)	Y		230 mg/dscm (0.10 gr/dscf) or 1603 ppmvd (3-hour rolling average) in fuel gas	Condition #23129, Part 19 40 CFR 60.105(a)(4)	C	CEM
NOx	Condition #23129, Part 12	Y		7 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average)	Condition #23129, Part 21	C	CEM
NOx	Condition #23129, Part 12	Y		7 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average)	Condition #23129, Part 26	P/E	Initial source tests
NOx	Condition #23129, Part 12a	Y		50 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition #23129, Part 21	C	CEM
CO	Condition #23129, Part 12	Y		35 ppmvd CO @ 3% O ₂ (3-hour average)	Condition #23129, Part 22	C	CEM
CO	Condition #23129, Part 12	Y		35 ppmvd CO @ 3% O ₂ (3-hour average)	Condition #23129, Part 26	P/E	Initial source tests

Table VII – ~~XX2C.4.7~~
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER HEATERS
ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS
S-1511 (HEATER #1 F78-ABATED BY A-1511)
S-1512 (HEATER #2 F79-ABATED BY A-1512)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Condition #23129, Part 12a	Y		400 ppmvd CO @ 3% O ₂ (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition #23129, Part 22	C	CEM
CO	Condition #23129, Part 12b	Y		50 ppmvd CO @ 3% O ₂ (3-hour average) For 100 days per consecutive 12 month period	Condition #23129, Part 22	C	CEM
O2	None	<u>Y</u>		No limit	Condition #23129, Part 23	C	CEM
NH3 slip Ammonia	Condition #23129, Part 13	Y		10 ppmvd @ 3% O ₂ (3 hour average)	Condition #23129, Part 26	P/E	Initial Source Tests
Throughput	Condition #23129, Part 14	Y		2,014,800 MMBtu/year	Condition #23129, Parts 24 & 25	C	Fuel flow meter and calorimeter

SECTION C.5 COMBUSTION – GAS TURBINES

Table VII – C.5.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S963 - ALKYLATION PLANT GAS TURBINE 177
S963-(GAS TURBINE 177 [ALKYLATION PLANT])

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>NOx</u>	<u>SIP 9-9-301.1</u>	<u>Y</u>		<u>42 ppmv @ 15% O₂ (dry) for natural gas.</u>	<u>BAAQMD Condition 19528, Part 19</u>	<u>P/A</u>	<u>Source Test</u>
<u>NOx</u>	<u>BAAQMD 9-9-301.1.1</u>	<u>N</u>		<u>42 ppmv @ 15% O₂ (dry) for natural gas.</u>	<u>BAAQMD 9-9-504</u>	<u>P/A</u>	<u>Source Test</u>
<u>NOx</u>	<u>BAAQMD 9-9-301.2</u>	<u>N</u>	<u>1/1/2010</u>	<u>42 ppmv @ 15% O₂ (dry) for natural gas</u>	<u>BAAQMD 9-9-504</u>	<u>P/A</u>	<u>Source Test</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD 6-1-401</u>	<u>P/E</u>	<u>Visual Inspection</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>SIP 6-401</u>	<u>P/E</u>	<u>Visual Inspection</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

SECTION D LIQUID LOADING

Table VII – D.1
Applicable Limits and Compliance Monitoring Requirements
Facility B2759
S55 AMORCO WHARF TERMINAL
Unloading Only

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>POC</u>	<u>SIP</u> <u>8-44-301.1</u> <u>8-44-301.2</u>	<u>Y</u>		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or reduce by 95% by weight [does not apply to unloading]</u>	<u>SIP</u> <u>8-44-501.1</u> <u>8-44-502</u>	<u>P/E</u> <u>Each</u> <u>loading</u> <u>event</u>	<u>Records</u>
<u>POC</u>	<u>SIP</u> <u>8-44-304.1</u>	<u>Y</u>		<u>Liquid leaks < 4 drops/minute</u> <u>Gas tight <=10,000 ppm (methane)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-301</u> <u>8-44-304.1</u>	<u>N</u>		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight [Loading]</u>	<u>BAAQMD</u> <u>8-44-501.1</u>	<u>P/E</u> <u>Each</u> <u>loading</u> <u>event</u>	<u>Records</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-304.2</u>	<u>N</u>		<u>Use emission control equipment for control of loading emissions</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-302.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	<u>N</u>		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)</u>	<u>BAAQMD</u> <u>8-44-501.2</u>	<u>P/E</u> <u>Each</u> <u>ballasting</u> <u>event</u>	<u>Records</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-302.2</u>	<u>N</u>		<u>Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)</u>	<u>BAAQMD</u> <u>8-44-501.2</u>	<u>P/E</u> <u>Each</u> <u>ballasting</u> <u>event</u>	<u>Records</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-303.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	<u>N</u>		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)</u>	<u>BAAQMD</u> <u>8-44-501.3</u>	<u>P/E</u> <u>Each</u> <u>venting</u> <u>event</u>	<u>Records</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-44-303.2</u>	<u>N</u>		<u>Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved</u>	<u>BAAQMD</u> <u>8-44-501.3</u>	<u>P/E</u> <u>Each</u> <u>venting</u> <u>event</u>	<u>Records</u>

Table VII – D.1
Applicable Limits and Compliance Monitoring Requirements
Facility B2759

S55 AMORCO WHARF TERMINAL

Unloading Only

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
				by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)			
HAPS	40 CFR 63.651(a) 63.560(a)(2)			< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR 63.560(a)(3) 63.565(l) 63.6567(j)(4)	P/A	Records
Through-put (Crude)	BAAQMD Condition 22455, Part 8	Y		70,080,000 bbls crude oil/consecutive 12-month period	BAAQMD Condition 22455, Part 12	P/ Vessel unloading	Records

Table VII – ED.2
Applicable Limits and Compliance Monitoring Requirements
S100-AVON WHARF LOADING BERTH NO. 1 MARINE BULK PLANT
WITH A-14 VAPOR RECOVERY SYSTEM

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	SIP 8-44-301.1 8-44-301.2	Y		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight	SIP 8-44-501.1 8-44-502	P/E Each loading event	Records
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight <=10,000 ppm (methane)	None	N	N/A
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Loading)	BAAQMD 8-44-501.1	P/E Each loading event	Records

Table VII — ED.2
Applicable Limits and Compliance Monitoring Requirements
S100-AVON WHARF LOADING BERTH NO. 1 MARINE BULK PLANT
WITH A-14 VAPOR RECOVERY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	<u>BAAQMD</u> <u>8-44-304.2</u>	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	<u>BAAQMD</u> <u>8-44-302.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	N		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)</u>	<u>BAAQMD</u> <u>8-44-501.2</u>	P/E Each ballasting event	Records
POC	<u>BAAQMD</u> <u>8-44-302.2</u>	N		Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)	<u>BAAQMD</u> <u>8-44-501.2</u>	P/E Each ballasting event	Records
POC	<u>BAAQMD</u> <u>8-44-303.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	N		<u>5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)</u>	<u>BAAQMD</u> <u>8-44-501.3</u>	P/E Each venting event	Records
POC	<u>BAAQMD</u> <u>8-44-303.2</u>	N		Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)	<u>BAAQMD</u> <u>8-44-501.3</u>	P/E Each venting event	Records
POC	<u>BAAQMD</u> <u>8-44-301.2</u>	N		POC Compounds reduced by 95%	N	N	N
POC		Y		No limit	<u>BAAQMD</u> <u>Condition</u> <u>878,</u> <u>Part 2</u>	C	Pressure recorder/ controller
POC	<u>BAAQMD</u> <u>Condition</u> <u>878, Part 3</u>	Y		Atmospheric relief valves leaks per Regulation 8, Rule 18	<u>BAAQMD</u> <u>Condition</u> <u>878, Part 3</u>	P/ Semi-annual	PRV leak tests

Table VII – D.3
Applicable Limits and Compliance Monitoring Requirements
S101 - TRUCK UNLOADING RACK – TRACT 2

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector

Table VII — FD.4
Applicable Limits and Compliance Monitoring Requirements
~~S106-AVON WHARF LOADING BERTH NO. 3, MARINE BULK PLANT~~
~~S107-AVON WHARF LOADING BERTH NO. 4, MARINE BULK PLANT~~
S108-AVON WHARF LOADING BERTH NO. 5, MARINE BULK PLANT
~~S114-AVON WHARF LOADING BERTH NO. 6~~

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	BAAQMD SIP 8-44-301.1 8-44-301.2	Y		POC Emission < 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or 5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight	SIP 8-44-501.1 8-44-502 BAAQMD Condition # 19528, Part 2	P/E Each loading event P/Every Three Years	Records Source Test
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight <=10,000 ppm (methane)	None	N	N/A
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Loading)	BAAQMD 8-44-501.1	P/E Each loading event	Records

Table VII — FD.4
Applicable Limits and Compliance Monitoring Requirements
~~S106-AVON WHARF LOADING BERTH NO. 3, MARINE BULK PLANT~~
~~S107-AVON WHARF LOADING BERTH NO. 4, MARINE BULK PLANT~~
S108-AVON WHARF LOADING BERTH NO. 5, MARINE BULK PLANT
~~S114-AVON WHARF LOADING BERTH NO. 6~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	<u>BAAQMD</u> <u>8-44-304.2</u>	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	<u>BAAQMD</u> <u>8-44-302.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)	<u>BAAQMD</u> <u>8-44-501.2</u>	P/E Each ballasting event	Records
POC	<u>BAAQMD</u> <u>8-44-302.2</u>	N		Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)	<u>BAAQMD</u> <u>8-44-501.2</u>	P/E Each ballasting event	Records
POC	<u>BAAQMD</u> <u>8-44-303.1</u> <u>8-44-304.1</u> <u>8-44-304.2</u>	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)	<u>BAAQMD</u> <u>8-44-501.3</u>	P/E Each venting event	Records
POC	<u>BAAQMD</u> <u>8-44-303.2</u>	N		Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)	<u>BAAQMD</u> <u>8-44-501.3</u>	P/E Each venting event	Records
HAPS	40 CFR <u>63.651(a)</u> <u>63.560(a)(2)</u>			< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR <u>63.560(a)(3)</u> <u>63.565(l)</u> <u>63.656(j)(4)</u>	P/A	Records

Table VII — D.5
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S115 - BULK PLANT TRUCK/RAIL
CAUSTIC WASTE LOADING RACK

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-302	Y		44 gr/m3 (0.35 lb/1000 gal loaded) [TVP > 1.5 psia]	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector

Table VII — D.6
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S126, S127 – EXEMPT LPG LOADING RACKS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
				<u>NO MONITORING REQUIRED</u>			

Table VII — DfD.7
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S1025 BULK PLANT TRUCK/RAIL
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
FACILITIES
ABATED BY WITH A14 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
Applicable to Non-Gasoline Loading Only							
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-301	Y		21 gr/m3 (0.17 lb/1000 gal loaded)	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Applicable to Gasoline Loading Only							
Liquid Leaks	BAAQMD 8-33-205 8-33-304.8	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline cargo tanks)	None	N	N/A
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	None	N	N/A
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N	01/10/2011	3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	BAAQMD 8-33-309.8	P/D	P/V valves, liquid fill hose & vapor hose connector seal physical inspection

Table VII — ~~DfD.7~~
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S1025 BULK PLANT TRUCK/~~RAH~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
FACILITIES
ABATED BY WITH A14 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	BAAQMD 8-33-301.1 & BAAQMD Condition #_21849, pPart 11d	N		Emissions shall not exceed 0.08-0.02-9.6 g/m3 (0.08 lb/POC per 1000 gallons) of gasoline material organic liquid loaded	BAAQMD Condition #_21849, pPart 11d	P/every five years prior to Title V Permit Renewal	Source Test
POC	<u>BAAQMD 8-33-301.2</u>	<u>N</u>	01/10/2011	<u>0.04 lb/1000 gal organic liquid loaded</u>	<u>BAAQMD Condition # 21849, Part 11d</u>	<u>P/every five years prior to Title V Permit Renewal</u>	<u>Source Test</u>
POC	<u>BAAQMD 8-33-301.2</u>	<u>N</u>	01/20/2011	<u>0.04 lb/1000 gal organic liquid loaded</u>	<u>BAAQMD 8-33-309.13</u>	<u>C</u>	<u>POC parametric monitoring</u>
POC	<u>SIP 8-33-301</u>	<u>Y</u>		<u>9.6 g/m3 (0.08 lb/1000 gal) organic liquid loaded</u>	<u>BAAQMD Condition # 21849, Part 11d</u>	<u>P/every five years prior to Title V Permit Renewal</u>	<u>Source Test</u>
POC	BAAQMD 8-33-301- e & BAAQMD Condition #_21849, pPart 11e	N		Emissions shall not exceed 0.08-0.02-9.6 g/m3 (0.08 lb/POC per 1000 gal)ons of gasoline material loaded	BAAQMD Condition #_21849, pPart 11c	C	Pressure indicator and switch at V-61 knockout pot
Through-put	BAAQMD Condition #_21849, pPart 9	Y		Throughput shall not exceed 64,457 bbl/day and 18,615K bbl/yr	non -BAAQMD Condition #_21849, pPart 12c	P/DM	R Records
POC	<u>BAAQMD 8-33-217 8-33-304.6</u>	<u>N</u>		<u>Pressure decay & vapor leak standards of CARB CP-204 (gasoline cargo tank)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII — ~~DfD.7~~
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S1025 BULK PLANT TRUCK/~~RAIL~~
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
FACILITIES
ABATED BY WITH A14 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	BAAQMD 8-33-216 8-33-304.7	N		100% of LEL (gasoline cargo tank liquid fill & vapor return connectors)	None	N	N/A
POC	BAAQMD 8-33-216 8-33-309.5	N	01/11/2011	3,000 ppm; or 6% of LEL (gasoline bulk terminal)	BAAQMD 8-33-309.8	P/W	Hydrocarbon analyzer
POC	BAAQMD 8-33-308.1	N		3,000 ppm; or 6% of LEL (vapor storage tank)	None	N	N/A
POC	BAAQMD 8-33-308.1	N	01/11/2011	3,000 ppm; or 6% of LEL (vapor storage tank)	BAAQMD 8-33-308.2	P/W	Hydrocarbon analyzer
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD Condition # 21849, Part 11c	C	Pressure indicator and switch at V-61 knockout pot
Pressure	BAAQMD 8-33-309.2	N	01/11/2011	18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	C	Backpressure monitor
Pressure	BAAQMD 8-33-309.2	N	01/11/2011	18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	P/A	Backpressure monitor correlation test
NONE	<u>40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries</u> <u>Vapor collection and processing equipment is EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system</u>						
<u>Requirements for Loading Cargo Trucks</u>							

Table VII — DfD.7
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S1025 BULK PLANT TRUCK/RAIL
BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL
FACILITIES
ABATED BY WITH A14 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
<u>Vapor Tight Cargo Trucks</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(e)(1) – (e)(4)</u>			<u>Procedures for loading gasoline cargo trucks</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(e)(1) – (e)(4)</u>	<u>P/E</u>	<u>Records</u>
<u>Vapor Tight Cargo Trucks</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(e)(5) 63.422(c)(2)</u>	<u>Y</u>		<u>Have a procedure in place to ensure that non-vapor tight trucks are not reloaded until new vapor tight documentation is received</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(e)(5) 63.422(c)(2)</u>	<u>P/E</u>	<u>Records</u>
<u>Vapor Collection</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(f) 60.502(g)</u>			<u>Ensure truck vapor collection equipment is:</u> <u>(1) Compatible with terminal</u> <u>(2) Connected to terminal</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>Pressure</u>	<u>40 CFR 63.650(a) 63.422(a) 60.502(h)</u>	<u>Y</u>		<u>Maximum cargo tank pressure during loading:</u> <u>450 mm H2O</u>	<u>40 CFR 63.650(a) 63.422(a) 60.503(d)</u>	<u>P/E</u>	<u>Record maximum pressure each loading event</u>

Table VII — DgD.8
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
S1504 BULK PLANT ETHANOL UNLOADING RACK
S1528 – ALKYLATE RAILCAR UNLOADING RACK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Through-put [S1504]	BAAQMD Condition # 21849, Part 13	Y		Throughput shall not exceed S1504 <= 12400K bbl/12 consecutive months	non BAAQMD Condition # 21849, Part 15b	P/M	Records
Through-put [S1528]		Y		S1528 - No Limit	BAAQMD Condition 13605, Part 5a	P/M	Records

Table VII – D.9
Applicable Limits and Compliance Monitoring Requirements
S1525-NON-RETAIL SERVICE STATION 1 NOZZLE

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	BAAQMD Condition 24172	Y		440,000 gallons gasoline/ consecutive 12-month period	BAAQMD 8-7-503.1	P/A	Records
VOC	BAAQMD 8-7-301.2	Y		Phase I vapor recovery efficiency standards per CARB certification	BAAQMD 8-7-407 8-7-603	N	Source test
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test

Table VII – D.9
Applicable Limits and Compliance Monitoring Requirements
S1525-NON-RETAIL SERVICE STATION 1 NOZZLE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.5			Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test
VOC	BAAQMD 8-7-302.5	Y		Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.8	Y		Phase II Liquid Removal ≥ 5 ml/gallon dispensed (at 5 gpm or per CARB EO)	BAAQMD 8-7-407 8-7-605	N	Source test
VOC	BAAQMD 8-7-302.12	Y		Phase II Liquid Retain ≤ 100 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.12 8-7-407	N	Source test
VOC	BAAQMD 8-7-302.13	Y		Phase II Spitting ≤ 1 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.13 8-7-407	N	Source test
VOC	BAAQMD 8-7-313.1	Y		Phase II Fugitives < 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR
VOC	BAAQMD 8-7-313.2	Y		Phase II Spillage < 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR

Table VII – D.9
Applicable Limits and Compliance Monitoring Requirements
S1525-NON-RETAIL SERVICE STATION 1 NOZZLE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	BAAQMD 8-7-313.3	Y		Phase II Liquid Retain + Spitting < 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR

SECTION E. SOLIDS HANDLING

Table VII – E.1
Applicable Limits and Compliance Monitoring Requirements
S97-CATALYST FINES HOPPER WITH ZURN INDUSTRIAL #310A BLOWER
S98-FCCU: CATALYST FINES HOPPER
CATALYST FINES HOPPER AT FCCU
S99 -FCCU: CATALYST FINES HOPPER
ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Opacity	BAAQMD Regulation 6-1-301	Y		Ringelmann No. less than 1 for more than 3 minutes	BAAQMD Condition # 19528, Part 13	P/Monthly	Visual Inspection
Visible Emissions	BAAQMD Regulation 6-305	Y		prohibition of nuisance fallout	BAAQMD Condition # 19528, Part 13	P/Monthly	Visual Inspection
The following apply when abated by A3/A4							
FPFM	BAAQMD Regulation 6-1-310	Y		No emissions from source ≥ 0.15 grain/dscf grains per dscf of exhaust gas volume	BAAQMD Condition # 19528, Part 13	P/Monthly	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
Operation [A3/A4]	N/A	Y		No limit	BAAQMD Condition 19528, Part 13A	P/ Annual	Inspection

Table VII — ~~CE.1~~
Applicable Limits and Compliance Monitoring Requirements
S97-CATALYST FINES HOPPER WITH ZURN INDUSTRIAL #310A BLOWER
S98-FCCU: CATALYST FINES HOPPER
CATALYST FINES HOPPER AT FCCU
S99 -FCCU: CATALYST FINES HOPPER
ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 19528, Part 13</u>	<u>P/Monthly</u>	<u>Visual Inspection</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 19528, Part 13</u>	<u>P/Monthly</u>	<u>Visual Inspection</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>BAAQMD Condition 19528, Part 13</u>	<u>P/Monthly</u>	<u>Visual Inspection</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>BAAQMD Condition 19528, Part 13</u>	<u>P/Monthly</u>	<u>Visual Inspection</u>
The following apply when abated by A30							
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>Condition 22150, Part 1</u>	<u>C</u>	<u>COMs</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 22150, Part 1</u>	<u>C</u>	<u>COMs</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – JE.2
Applicable Limits and Compliance Monitoring Requirements
S659- ~~COKE STORAGE, TANK A-659 COKE STORAGE TANK, ABATED BY A-9, COKER~~
PRECIPITATOR
S660- ~~COKE STORAGE, TANK A-660 COKE STORAGE TANK,~~
ABATED BY A-9, COKER PRECIPITATOR BAGHOUSE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301 BAAQMD Condition 23129 Part 38	N Y	06/01/04	<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> Ringelmann No. 1	BAAQMD Condition # 19528, Part 14a	P/D	Visual Inspection
<u>Visible Emissions</u>	<u>SIP 6-301</u>	Y		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 19528, Part 14a</u>	<u>P/D</u>	<u>Visual Inspection</u>
<u>VP Visible Particles M</u>	BAAQMD 6-1-305	N Y	06/01/04	p <u>Prohibition of nuisance fallout</u>	BAAQMD Condition # 19528, Part 14a	P/D	Visual Inspection
<u>VP Visible Particles</u>	<u>SIP 6-305</u>	Y		<u>Prohibition of nuisance</u>	<u>BAAQMD Condition 19528, Part 14a</u>	<u>P/D</u>	<u>Visual Inspection</u>
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	BAAQMD Condition # 19528, Part 14a	P/D	Visual Inspection
<u>FP</u>	<u>SIP 6-310</u>	Y		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Part 14a</u>	<u>P/D</u>	<u>Visual Inspection</u>
FP	BAAQMD 6-1-311	N Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19528, Part 14a	P/D	Visual Inspection
<u>FP</u>	<u>SIP 6-311</u>	Y		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>BAAQMD Condition 19528, Part 14a</u>	<u>P/D</u>	<u>Visual Inspection</u>

Table VII – JE.2
Applicable Limits and Compliance Monitoring Requirements
S659- ~~COKE STORAGE, TANK A-659 COKE STORAGE TANK, ABATED BY A-9, COKER~~
~~PRECIPITATOR~~
S660- ~~COKE STORAGE, TANK A-660 COKE STORAGE TANK,~~
~~ABATED BY A-9, COKER PRECIPITATOR~~BAGHOUSE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD 9-1-301	Y		ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	at the request of the District, 9-1-501 requires compliance with BAAQMD 1-510	P/D	SO ₂ -CEM
Through-put (Fluid Coke)	BAAQMD Condition # 20682, Part 2	Y		Total throughput shall not exceed 1,016,160 tons/ during each rolling consecutive 12 months [Fluid coke service]-	BAAQMD Condition # 20682, Part 3	P/M	Records
Through-put (Delayed Coke)	BAAQMD Condition 23129, Part 41	Y		<= 550 scfm exhaust air flow at A9 [Delayed coke service]	BAAQMD Condition 23129, Part 42	P/M	Records

Table VII – JaE.3
Applicable Limits and Compliance Monitoring Requirements
S809 – COKER SLURRY SETTLER ABATED BY A6 SCRUBBER
S810-FLUID COKE PILE LOADING SYSTEM AT PILE,
S821-FLUID COKE STORAGE PILE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	<u>NY</u>	<u>04/01/04</u>	<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann No. 1</u>	BAAQMD Condition # 19528, Part 14	P/Daily	Visual Inspection

Table VII – JaE.3
Applicable Limits and Compliance Monitoring Requirements
S809 – COKER SLURRY SETTLER ABATED BY A6 SCRUBBER
S810-FLUID COKE PILE LOADING SYSTEM AT PILE,
S821-FLUID COKE STORAGE PILE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 19528, Part 14</u>	<u>P/D</u>	<u>Visual Inspection</u>
<u>VP Visible Particles</u> <u>M</u>	BAAQMD 6- <u>1</u> -305	<u>NY</u>	<u>04/01/04</u>	<u>p</u> Prohibition of nuisance fallout	BAAQMD Condition # 19528, Part 14	P/Daily	Visual Inspection
<u>VP Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>BAAQMD Condition 19528, Part 14</u>	<u>P/D</u>	<u>Visual Inspection</u>
FP	BAAQMD 6- <u>1</u> -310	<u>NY</u>	<u>04/01/04</u>	0.15 grain/dscf	BAAQMD Condition # 19528, Part 14	P/Daily	Visual Inspection
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>BAAQMD Condition 19528, Part 14</u>	<u>P/D</u>	<u>Visual Inspection</u>
FP	BAAQMD 6- <u>1</u> -311	<u>NY</u>	<u>04/01/04</u>	4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19528, Part 14	P/Daily	Visual Inspection
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>BAAQMD Condition 19528, Part 14</u>	<u>P/D</u>	<u>Visual Inspection</u>
SO ₂	BAAQMD 9-1-301	<u>Y</u>		ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	at the request of the District, 9-1-501 requires compliance with BAAQMD 1-510	C	SO ₂ -CEM

Table VII – ~~FE.4~~
Applicable Limits and Compliance Monitoring Requirements
S846-No. 3 HDS COOLING TOWER
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER
S979-No. 2 FEED PREP COOLING TOWER
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N Y		> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. less than 1 for more than 3 minutes	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N Y		No emissions from source > 0.15 grain/dscf grains per dscf of exhaust gas volume	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-311	N Y		Process weight < those on Table 1 of Regulation 6-1-311	None	N	N/A
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>Process weight < those on Table 1 of Regulation 6-311</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – ~~FE.4~~
Applicable Limits and Compliance Monitoring Requirements
S846-No. 3 HDS COOLING TOWER
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER
S979-No. 2 FEED PREP COOLING TOWER
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC (S975)</u>	<u>BAAQMD Condition 19199, Part D5</u>	<u>Y</u>		<u>100 ppm (gasoline range organics)</u> <u>100 ppm (diesel range organics)</u>	<u>BAAQMD Condition 19199, Part D6</u>	<u>P/ Weekly</u>	<u>Lab analysis</u> <u>EPA</u> <u>Method</u> <u>8015</u>
<u>POC (S982)</u>	<u>BAAQMD Condition 19199, Part E5</u>	<u>Y</u>		<u>100 ppm (gasoline range organics)</u> <u>100 ppm (diesel range organics)</u>	<u>BAAQMD Condition 19199, Part E6</u>	<u>P/ Weekly</u>	<u>Lab analysis</u> <u>EPA</u> <u>Method</u> <u>8015</u>
<u>Circulation rate (S975)</u>	<u>BAAQMD Condition 19199, Part D1</u>	<u>Y</u>		<u>4,140,000 gallons/hr</u> <u>or</u> <u>69,000 gallons/min</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Circulation rate (S982)</u>	<u>BAAQMD Condition 19199, Part E1</u>	<u>Y</u>		<u>1,080,000 gallons/hr</u> <u>or</u> <u>18,000 gallons/min</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>TDS</u>	<u>None</u>			<u>None</u>	<u>None</u> <u>BAAQMD Condition 22230, Part 1</u>	<u>NP/ Monthly</u>	<u>N/A</u> <u>Lab analysis</u>
<u>TDS (S975)</u>	<u>BAAQMD Condition 19199, Part D3</u>	<u>Y</u>		<u>5000 mg/L</u>	<u>BAAQMD Condition 19199, Part D4</u>	<u>P/ Quarterly</u>	<u>Lab analysis</u>

Table VII – ~~FE.4~~
Applicable Limits and Compliance Monitoring Requirements
S846-No. 3 HDS COOLING TOWER
S975-No. 4 GAS PLANT COOLING TOWER,
S976-No. 5 GAS PLANT COOLING TOWER
S977-CRUDE UNIT COOLING TOWER
S978-FOUL WATER STRIPPER COOLING TOWER
S979-No. 2 FEED PREP COOLING TOWER
S980-HYDROCRACKER COOLING TOWER
S981-No. 1 HDS COOLING TOWER
S982-No. 2 HDS COOLING TOWER
S983-ALKY AND NO. 2 REFORMER COOLING TOWER
S985-No. 1 GAS PLANT COOLING TOWER
S987-No. 50 UNIT COOLING TOWER
S988-No. 3 REFORMER COOLING TOWER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>TDS (S982)</u>	<u>BAAQMD Condition 19199, Part E3</u>	<u>Y</u>		<u>5000 mg/L</u>	<u>BAAQMD Condition 19199, Part E4</u>	<u>P/ Quarterly</u>	<u>Lab analysis</u>
<u>VPVisible Particles</u>	<u>BAAQMD 6-1-305</u>	<u>N</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Particulate Matter</u>	<u>BAAQMD 6-1-311</u>	<u>N</u>		<u>Process weight < those on Table 1 of Regulation 6-1-311</u>	<u>NoneBAAQMD Condition 22230, Part 1, 2 and 3</u>	<u>NP/ Monthly</u>	<u>N/ACalculations BAAQMD Condition 22230, Part 3</u>
<u>Particulate Matter</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>Process weight < those on Table 1 of Regulation 6-311</u>	<u>NoneBAAQMD Condition 22230, Part 1, 2 and 3</u>	<u>NP/ Monthly</u>	<u>N/ACalculations BAAQMD Condition 22230, Part 3</u>

**Table VII – ~~XX3E.5~~
 Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER SCREEN/CRUSHER (S-1513) & CONVEYORS & DEWATERING PAD**

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions Opacity	BAAQMD 6-1-301 BAAQMD Condition 23129 Part 31	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1 except for 3 minutes in every consecutive 60 minute period	Condition 23129, Part 34	P/D	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 34	P/D	Visual Inspection
VP Visible Particles PM	BAAQMD 6-1-305	N		p Prohibition of nuisance fallout	Condition 23129, Part 34	P/D	Visual Inspection
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	Condition 23129, Part 34	P/D	Visual Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 23129, Part 34	P/D	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 23129, Part 34	P/D	Visual Inspection
FP	BAAQMD 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 34	P/D	Visual Inspection
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 34	P/D	Visual Inspection
Moisture	Condition #23129, Part 30	Y		Coke moisture ≥ 5% (wt)	Condition #23129, Part 36	P/E	Initial source test
Throughput	Condition #23129, Part 29	Y		1,277,500 wet tons per consecutive 12 months	Condition #23129, Part 37	P/M	Records

Table VII – ~~XX4~~E.6
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKE SILOS ABATED BY BAGHOUSES
S-1514 (SILO #1 ABATED BY A-1514)
S-1515 (SILO #2 ABATED BY A-1515)

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions Opacity	BAAQMD 6-1-301	N Y		> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1 except for 3 minutes in every consecutive 60 minute period	Condition 23129, Part 40	C	Bag Failure Monitor
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 40	C	Bag Failure Monitor
VP Visible Particles PM	BAAQMD 6-1-305	N Y		p Prohibition of nuisance fallout	Condition 23129, Part 40	C	Bag Failure Monitor
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	Condition 23129, Part 40	C	Bag Failure Monitor
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	Condition 23129, Part 40	C	Bag Failure Monitor
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 23129, Part 40	C	Bag Failure Monitor
FP	BAAQMD 6-1-311	N Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 40	C	Bag Failure Monitor
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 40	C	Bag Failure Monitor

Table VII – ~~XX4~~E.6
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKE SILOS ABATED BY BAGHOUSES
S-1514 (SILO #1 ABATED BY A-1514)
S-1515 (SILO #2 ABATED BY A-1515)

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	Condition #23129, Part 39	Y		0.01 grain/dscf	Condition 23129, Part 40	C	Bag Failure Monitor
Throughput	Condition #23129, Part 41	Y		4,200 scfm exhaust air flow (each abatement device)	Condition #23129, Part 42	P/M	Records

Table VII – ~~XX5~~E.7
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER TRUCK LOADOUT (S-1516)

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions Opacity	BAAQMD 6-1-301	N Y		> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1 except for 3 minutes in every consecutive 60 minute period	None	N	N/A
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VP Visible Particles PM	BAAQMD 6-1-305	N Y		p Prohibition of nuisance fallout	None	N	N/A
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	None	N	N/A

Table VII – ~~XX5~~E.7
Applicable Limits and Compliance Monitoring Requirements
DELAYED COKER TRUCK LOADOUT (S-1516)

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6- 1 -311	<u>N</u> Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
<u>FP</u>	<u>SIP</u> <u>6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Throughput	Condition #_23129, Part 44	Y		1,277,500 wet tons per consecutive 12 months	Condition #_23129, Part 49	P/D P/M	Records

SECTION F TANKS

Refer to Table IV-F.1 TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

Refer to Table IV-F.2 TANKS – GROUPS AND GROUP DESCRIPTIONS

<p align="center">Table VII – F.3 <u>Applicable Limits and Compliance Monitoring Requirements</u> Source-specific Applicable Requirements TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS</p>																			
Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
BAAQMD Regulation 8, Rule 5 Organic Compounds - Storage of Organic Liquids																			
SIP Regulation 8, Rule 5 Organic Compounds – Storage of Organic Liquids																			
TVP	BAAQMD 8-5-117 SIP 8-5-117	Y		Exempt Tank true vapor pressure not greater than 0.5 psia.	BAAQMD Condition 19528, Parts 12, 12.1	P/E upon change of service	Look up table or sample analysis; Records		X										
TVP	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records		X	X	X	X	X	X	X	X	X	X	X
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records							X	X	X	X	X	X
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection							X	X	X	X	X	X

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	201	202	203	301	302	401	402	403	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	ABCDE	AB		ABC	AB	ABC	ABCD	AB	(Reserved)			
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm OR	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector												
					BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector						X	X	X	X	X		
				BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)													
VOC	SIP 8-5-303.2	Y		Pressure relief valve gas tight (< 500 psig)	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector						X	X	X	X	X		
VOC	BAAQMD 8-5-304.6.1	N		EFR leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector		X	X	X					-			
VOC	BAAQMD 8-5-305 8-5-321.1 8-5-322.1 SIP 8-5-305	Y		IFR visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection					X	X			-			
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	P/A	Source test										X		X

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit					Monitoring			Source #	101	201	202	203	301	302	401	402	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type													
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	SIP 8-5-603.1	P/A	Source test											X		X
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG								X		X			
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG								X		X			
VOC	BAAQMD 8-5-307.3	N		Pressure relief valve gas tight (< 500 psig)	BAAQMD 8-5-403 8-5-403.2 8-5-605	P/SA	Method 21 portable hydrocarbon detector								X	X	X	X	X	
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		EFR floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection		X	X	X									
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		IFR fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection						X	X						
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		EFR primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection		X	X	X									

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)														Type
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		IFR primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection					X	X							
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		EFR secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection		X	X	X									
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		IFR secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection					X	X							
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		EFR floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; (enhanced monitoring)		X	X	X									
VOC	BAAQMD 8-5-328.1	N		Tanks > 75 m ³ residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector		X	X	X	X	X	X		X	X	X	X	

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
VOC	SIP 8-5-328.1.2	Y		Tanks > 75 m ³ concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector		X	X	X	X	X	X		X	X	X	X
VOC	SIP 8-5-328.1	Y		Tanks > 75 m ³ tank degassing control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	Records		X	X	X	X	X	X		X	X	X	X
VOC	BAAQMD 8-5-328.1 SIP 8-5-328.1	Y		Tank degassing control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2 SIP 8-5-502	P/A	Source test		X	X	X	X	X	X		X	X	X	X
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 SIP 8-5-404 SIP 8-5-405	P/ after each tank inspection and source test	Certification report		X	X	X	X	X	X	X	X	X	X	X
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/ for each tank seal replacement	Records (retain 10 years)		X	X	X	X	X						
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	Look-up table or sample analysis		X	X	X	X	X	X	X	X	X	X	X

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements
TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	201	202	203	301	302	401	402	403	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	ABCDE	AB		ABC	AB	ABC	ABCD	AB	(Reserved)			
NSPS 40 CFR 60 Subpart Kb Volatile Organic Liquid Storage Vessels																			
VOC	60.112b (a)(3)(i)	Y		Fixed roof closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	N	Method 21 portable hydrocarbon detector									X	X		
VOC	60.112b (a)(3)(ii)	Y		Fixed roof control device standards; includes 95% efficiency requirement	60.113b(c)(1) 60.113b(c)(2)	N	Operating Plan									X	X		
VOC	60.116b(c)	Y		Record of liquid stored and true vapor pressure	60.116b(e)	P/E upon change of service	Records									X	X		
VOC	63.640(n)(1) 60.112b (a)(1)	Y		IFR deck fitting closure standards	63.640(n)(8), 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B			-			
VOC	63.647(a) 61.351(a)(1) 60.112b (a)(1)	Y		IFR deck fitting closure standards	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						C						

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
VOC	63.640(n)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	63.640(n)(8) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B						
VOC	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection						C						
VOC	63.640(n)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	63.640(n)(8) 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B						
VOC	63.647(a) 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	63.647(a) 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection						C						

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
VOC	63.640(n)(1) 60.113b (a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	63.640(n)(8), 60.113b(a)(2)	P/A	Visual inspection						A B						
VOC	63.647(a) 61.351(a)(1) 60.113b (a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	Visual inspection						C						
VOC	63.640(n)(1) 60.112b (a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	63.640(n)(8) 60.113b(b)(6)	Each time emptied & degassed	Visual inspection				A								
VOC	63.640(n)(1) 61.351(a)(2) 60.112b (a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	63.640(n)(1), 61.351(a)(2), 60.113b(b)(6)	Each time emptied & degassed	Visual inspection				B								
VOC	63.640(n)(1) 60.113b (b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection				A								
VOC	63.640(n)(1) 61.351(a)(2) 60.113b (b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	63.640(n)(1), 61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection				B								
VOC	63.640(n)(1) 60.113b (b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection				A								

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
VOC	63.640(n)(1) 61.351(a)(2) 60.113b (b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	63.640(n)(1), 61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection				B								
VOC	63.640(n)(8) 60.116b(c)	Y		Record of liquid stored and true vapor pressure	63.640(n)(8) 60.116b(c)	P/E upon change of service	Records				X		X						
VOC		Y		EFR seal inspection records for report in 60.115b(b)(2)	63.640(n)(8) 60.115b(b)(3)	P/A For each gap measurement	Records				X								
VOC		Y		EFR inspection report for non-compliant seals	63.640(n)(8) 60.115b(b)(4)	P/A Within 30 days of seal inspection	Report				X								
40 CFR 63 Subpart CC NESHAP for Petroleum Refineries (MACT)																			
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1) (iv)	P/E	Records		B	X									
HAP	63.646(a) 63.120(a)(4)	Y		IFR additional rim-seal standards; includes no gaps visible from the tank top, no liquid on the floating roof or other obvious defects	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/A	Visual inspection					X							

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	ABCDE	201	AB	202	203	ABC	301	AB	302	ABC	401	ABCD	402	AB	403 (Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)																					Type
HAP	63.646(a) 63.120(a)(7)	Y		IFR primary rim-seal standards; no holes or tears	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection																				
HAP	63.646(a) 63.120(a)(7)	Y		IFR secondary rim-seal standards (if so equipped); no holes or tears	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection																				
HAP	63.646(a) 63.120(b)(3) 63.120(b)(5)	Y		EFR primary rim-seal standards; includes gap criteria	63.646(a) 63.120(b)(1) 63.120(b)(2)	P/ at 5 year intervals	Measurement and visual inspection			X	X																
HAP	63.646(a) 63.120(b)(4) 63.120(b)(6)	Y		EFR secondary rim-seal standards; includes gap criteria	63.646(a) 63.120(b)(1) 63.120(b)(2)	P/A	Measurement and visual inspection			X	X																
HAP	63.646(f)	Y		IFR deck fitting closure standards	63.646(a) 63.646(e) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection																				
HAP	63.646(f)	Y		EFR deck fitting closure standards	63.646(a) 63.646(e) 63.120(b)(10)	P/ each time emptied & degassed	Visual inspection			X	X																
VOC	63.654(i)	Y		Recordkeeping	63.654(i)(1) and 63.123(a)	periodic and upon change of service	Records		B	X	X				X												

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	201	202	203	301	302	401	402	403	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	ABCDE	AB		ABC	AB	ABC	ABCD	AB	(Reserved)			
40 CFR 61 Subpart FF –Benzene Waste Operations NESHAP																			
VOC	63.647(a) 61.343(a) (1)(i)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(A)	P/A	Method 21 portable hydrocarbon detector									<u>B</u>	B	X	
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection									<u>B</u>	B	X	
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a) (1)(i)	P/A	Method 21 portable hydrocarbon detector									<u>B</u>	B	X	
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection									<u>B</u>	B	X	
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.340(d)	N	Exempt from control standards – vented to fuel gas									<u>B</u>	B		
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.349(h) 61.354(d)	P/D	VOC analyzer											X	
VOC	63.647(a) 61.349(f)	Y		CVS evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection							<u>B</u>	B	B	X		
BAAQMD Permit Conditions																			
POC	BAAQMD Condition 13605 Part 2	Y		POC emissions shall not exceed 1922.79 pounds per year	BAAQMD Condition 13605 Part 5	P/I and upon change of service	Calculate	S323											

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	101 ABCDE	201	201 AB	202	203	203 ABC	301	301 AB	302	302 ABC	401	401 ABCD	402	402 AB	403	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type																				
TVP	BAAQMD Condition 13605 Part 2	Y		True Vapor Pressure shall not exceed 7.6 psia	BAAQMD Condition 13605 Part 5	P/M	Records	S323																			
VOC	BAAQMD Condition 13605 Part 3	N		Control device standards; includes 99.5% efficiency requirement	BAAQMD Condition 21053 Part 3 and 4	P/A	Source Test (ST-4)	S323																			
VOC	BAAQMD Condition 21053 Part 3	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21053 Part 3	P/every 5 years prior to Title V renewal	Source Test	S323																			
VOC	BAAQMD Condition 21100 Part 2	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21100 Part 4	P/every 5 years prior to Title V renewal	Source Test	S1496																			
POC	BAAQMD Condition 21100 Part 3	Y		POC emissions shall not exceed 8,868 pounds per year	BAAQMD Condition 21100 Part 5	P/I and upon change of service	Calculate	S1496																			
TVP	BAAQMD Condition 21100 Part 3	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21100 Part 5	P/M	Records	S1496																			
POC	BAAQMD Condition 21393 Part 2	Y		POC emissions shall not exceed 15,904 pounds per year	BAAQMD Condition 21393 Part 4	P/I and upon change of service	Calculate	S871																			

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	101 ABCDE	201	201 AB	202	203	203 ABC	301	301 AB	302	302 ABC	401	401 ABCD	402	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type																			
TVP	BAAQMD Condition 21393 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21393 Part 4	P/M	Records	S871																		
VOC	BAAQMD Condition 21536 Part 2 and 3	Y		Overall collection and adsorption efficiency of at least 95% by weight POC	BAAQMD Condition 21536 Part 4 and 5	P/E	PID or FID	S1489 S1490 S1491																		
POC	BAAQMD Condition 21536 Part 3	Y		POC emissions shall not exceed 711.50 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1489 S1490																		
POC	BAAQMD Condition 21536 Part 4	Y		POC emissions shall not exceed 355.75 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1491																		
TVP	BAAQMD Condition 21536 Part 4A and 4B	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21536 Part 10	P/M	Records	S1489 S1490 S1491																		
POC	BAAQMD Condition 22640 Part 2	Y		POC emissions shall not exceed 8,384.42 pounds per year	BAAQMD Condition 22640 Part 4	P/I and upon change of service	Calculate	S1506 S1507																		
TVP	BAAQMD Condition 22640 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 22640 Part 4	P/M	Records	S1506 S1507																		

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
TVP	BAAQMD Condition 23486 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 23486 Part 4	P/M	Records	S1508											
TVP	BAAQMD Condition 23739 Part 2	Y		True Vapor Pressure shall not exceed 7.3 psia	BAAQMD Condition 23739 Part 3	P/M	Records	S1521											
BAAQMD Permit Conditions (Throughputs)																			
Through-put	BAAQMD Condition 5711 Part 1	Y		11,000 gallons per 12 months	BAAQMD Condition 5711 Part 4	P/D P/M	Records	S795											
Through-put	BAAQMD Condition 6740 Part 3	Y		<u>1,240,000 bbls per consecutive 12 months/year</u>	BAAQMD Condition 6740 Part 5	P/D	Records	S612											
Through-put	BAAQMD Condition 10984 Part 2	Y		1,915,000 bbls in any consecutive 12 month period	BAAQMD Condition 10984 Part 4	P/M	Records	S137											
<u>Through-put</u>	<u>BAAQMD Condition 13282 Part 1</u>	<u>Y</u>		<u>2,490,000 bbls per any 12 consecutive month period</u>	<u>BAAQMD Condition 13282 Part 4</u>	<u>P/M</u>	<u>Records</u>	<u>S1421</u>											
Through-put	BAAQMD Condition 13605 Part 1	Y		2,000,000 bbls per each rolling 12 consecutive month period	BAAQMD Condition 13605 Part 5	P/M	Records	S323											

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)													
Through-put	BAAQMD Condition 17477 Part A1 and C1	Y		50,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 17477 Part A6 and C6	P/M	Records	S1461 S1463											
Through-put	BAAQMD Condition 17477 Part D1 and E1	Y		10,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 17477 Part D5 and E5	P/M	Records	S1464 S1465											
Through-put	BAAQMD Condition 19197 Part 2	Y		3000 gallons per 12 months	BAAQMD Condition 19197 Part 7	P/M rolling 12-month	Records	S1473											
Through-put	BAAQMD Condition 19762 Part A1	Y		11,336,000 bbls in every consecutive 12 month period	BAAQMD Condition 19762 Part A6	P/M	Records	S775											
Through-put	BAAQMD Condition 20520 Part 1	Y		11,000,000 bbls in any any consecutive 12 month period	BAAQMD Condition 20520 Part 6	P/M	Records	S1485											
Through-put	BAAQMD Condition 20923 Part 1	Y		700,000 bbls in every consecutive 12 month period	BAAQMD Condition 20923 Part 4	P/M	Records	S134											
Through-put	BAAQMD Condition 21100 Part 1	Y		2,500,000 bbls in any consecutive 12-month period	BAAQMD Condition 21100 Part 5	P/M	Records	S1496											

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101 ABCDE	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
Through-put	BAAQMD Condition 21393 Part 1	Y		20,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 21393 Part 4	P/M	Records	S33 S638 S639 S640 S664 S692 S708 S710 S711 S871											
Through-put	BAAQMD Condition 21536 Part 1 and 2	Y		13,000 bbls in any consecutive 12 month period	BAAQMD Condition 21536 Part 9 and 10	P/M	Records	S1489 S1490 S1491											
Through-put	BAAQMD Condition 22455 Part 9	Y		70,080,000 bbls in any consecutive 12 month period	BAAQMD Condition 22455 Part 12	P/M	Records	B19 B21 B30 B49 B50 combined											
Through-put	BAAQMD Condition 22640 Part 1	Y		11,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 22640 Part 4	P/M	Records	S1506 S1507 combined											
Through-put	BAAQMD Condition 23263 Part a.1	Y		2,500,000 bbls in any consecutive 12 month period	BAAQMD Condition 23263 Part a.3	P/M	Records	S896											

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements
Source-specific Applicable Requirements

TANK GROUP APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Limit				Monitoring			Source #	101	101 ABCDE	201	201 AB	202	203	203 ABC	301	301 AB	302	302 ABC	401	401 ABCD	402	402 AB	403	403 (Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type																				
Through-put	BAAQMD Condition 23486 Part 1	Y		1,689,000 barrels in consecutive 12 months	BAAQMD Condition 23486 Part 4	P/M	Records	S1508																			
Through-put	BAAQMD Condition 23739 Part 1	Y		10,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 23739 Part 3	P/M	Records	S1521																			
Through-put	BAAQMD Condition 24131 Part 1	Y		1,726,000 bbls in any consecutive 12 month period	BAAQMD Condition 24131 Part 3	P/M	Records	S1522																			

SECTION G WASTEWATER SOURCES (EXCEPT TANKS)

Table VII – G.1
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
VOC	BAAQMD 8-8-312	N		Controlled WW collection system components: vapor tight	BAAQMD 8-8-402.4 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components: vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; not vapor tight on regular semi-annual inspection	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/ Reinspect within 30 days of discovery and every 30 days until controlled or returned to semi-annual inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-312 8-8-313.2 8-8-402.1	N		Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records

Table VII – G.2
Applicable Limits and Compliance Monitoring Requirements
INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60 SUBPART QQQ

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	<u>40 CFR 60.692-2 (a)(2)</u>	Y		adequate water seal level in active drains	<u>40 CFR 60.692-2 (a)(2)</u>	P/M	Visual inspection
POC	<u>40 CFR 60.692-2 (a)(3)</u>	Y		adequate water seal level in inactive drains if not tightly sealed or plugged	<u>40 CFR 60.692-2 (a)(3)</u>	P/W	Visual inspection
POC	<u>40 CFR 60.692-2 (a)(4)</u>	Y		adequate water seal level in inactive drains if tightly sealed or plugged	<u>40 CFR 60.692-2 (a)(4)</u>	P/SA	Visual inspection
POC	<u>40 CFR 60.692-2 (b)(2)</u>	Y		Tight seals at junction boxes	<u>40 CFR 60.692-2 (b)(3)</u>	P/SA	Visual inspection
POC	<u>40 CFR 60.692-2 (c)(1)</u>	Y		No cracks, gaps, or problems in unburied sewer lines	<u>40 CFR 60.692-2 (c)(2)</u>	P/SA	Visual inspection

Table VII – BUG.3
Cluster 25
Applicable Limits and Compliance Monitoring Requirements
~~CLOSED VENT SYSTEMS & CONTROL DEVICES~~
S513 – Tank A-513
Wastewater Sludge Tank – Abated by A14 Vapor Recovery

<u>Type of Limit</u>	<u>Emission Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Emission-Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	<u>BAAQMD 8-8-303</u>	Y		Vapor tight gauging and sampling devices	<u>BAAQMD 8-8-504 8-8-603 SIP 8-8-603</u>	N	Method 21 portable hydrocarbon detector
VOC	<u>BAAQMD</u>	N		Control device standards;	<u>BAAQMD</u>	N	Source Test

Table VII – BUG.3

Cluster 25

Applicable Limits and Compliance Monitoring Requirements

~~CLOSED VENT SYSTEMS & CONTROL DEVICES~~

S513 – Tank A-513

Wastewater Sludge Tank -- Abated by A14 Vapor Recovery

Type of Limit	Emission Citation of Limit Citation	FE Y/N	Future Effective Date	Emission-Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	8-8-304			includes 95% efficiency	8-8-602		
VOC	SIP 8-8-304	Y		Control device standards; includes 95% efficiency	SIP 8-8-602	N	Source Test
BAAMD 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	BAAQMD 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-603.1	P/A	MOP Volume IV ST-4
VOC	BAAQMD 8-5-328.1	Y		Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	Records
VOC	BAAQMD 8-5-328.1	Y		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	BAAQMD 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after cleaning	BAAQMD 8-5-503	periodic each time emptied & degassed	portable hydrocarbon detector
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	records
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	<u>40 CFR</u> 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	<u>40 CFR</u> 60.112b (a)(3)(i)	annually N	Method 21

Table VII – BUG.3
Cluster 25
Applicable Limits and Compliance Monitoring Requirements
~~CLOSED VENT SYSTEMS & CONTROL DEVICES~~
S513 – Tank A-513
Wastewater Sludge Tank -- Abated by A14 Vapor Recovery

Type of Limit	Emission Citation of Limit	FE Y/N	Future Effective Date	Emission-Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>40 CFR</u> 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement;	<u>40 CFR</u> <u>60.113b(c)(1)(i)</u> 60.113b (e)(2) & BAAQMD Condition #21053 Part 6	<u>One Time</u> P/ every 5 years prior to the Title V Permit Renewal	<u>Records</u> Source Test
<u>POC</u>	<u>Condition 21053</u> <u>Part 6</u>	<u>Y</u>		<u>Destruction Efficiency at</u> <u>least 95% by weight</u>	<u>Condition 21053</u> <u>Part 7</u>	<u>P/5 years</u>	<u>Source Test</u>
<u>NONE</u>	<u>40 CFR 63 Subpart CC – NESHP for Petroleum Refineries</u> <u>EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points</u> <u>routed to a fuel gas system</u>						

Table VII – 1aG.4
Applicable Limits and Compliance Monitoring Requirements
S532–OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 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
<u>POC</u>	<u>40 CFR</u> <u>61.347(a)(1)(i)(</u> <u>A)</u>	<u>Y</u>		<u>500 ppmv</u>	<u>40 CFR</u> <u>61.347(a)(1)(i)(A)</u> <u>61.355(h)</u>	<u>P/A</u>	<u>Method 21</u> <u>portable</u> <u>hydrocarbon</u> <u>detector</u>
<u>POC</u>	<u>40 CFR</u> <u>61.347(a)(1)(i)(</u> <u>B)</u>	<u>Y</u>		<u>No cracks, gaps, or</u> <u>problems in OWS</u>	<u>40 CFR</u> <u>61.347(b)</u>	<u>P/Q</u>	<u>Visual</u> <u>Inspection</u>

Table VII – IaG.4
Applicable Limits and Compliance Monitoring Requirements
S532–OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 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	<u>40 CFR 61.349(a)(1)(i)</u>	Y		<u>500 ppmv (Closed vent system)</u>	<u>40 CFR 61.349(a)(1)(i) 61.355(h)</u>	P/A	<u>Method 21 portable hydrocarbon detector</u>
POC	<u>40 CFR 61.349(a)(1)(ii)(B)</u>	Y		<u>CVS with bypass line car-seal closed</u>	<u>40 CFR 61.354(f)(1)</u>	P/M	<u>Visual Inspection</u>
POC	<u>40 CFR 61.349(a)(1)(iii)</u>	Y		<u>500 ppmv (Gauging & Sampling devices)</u>	<u>40 CFR 61.355(h)</u>	N	<u>Method 21 portable hydrocarbon detector</u>
POC	<u>40 CFR 61.349(f)</u>	Y		<u>CVS evidence of visual defects</u>	<u>40 CFR 61.349(f)</u>	P/Q	<u>Visual Inspection</u>
VOC	<u>BAAQMD 8-8-301.3</u>	N		<u>95% collection and destruction</u>	<u>BAAQMD 8-8-602</u>	N	<u>Source Test</u>
VOC	<u>SIP 8-8-301.3</u>	Y		<u>95% collection and destruction</u>	<u>SIP 8-8-602</u>	N	<u>Source Test</u>
VOC	<u>BAAQMD 8-8-303</u>	Y		<u>Vapor tight gauging and sampling devices</u>	<u>BAAQMD 8-8-504 8-8-603 SIP 8-8-603</u>	N	<u>Method 21 portable hydrocarbon detector</u>
VOC (S532)	<u>BAAQMD Condition Cond# 20099, pPart 4</u>	Y		<u>98% collection and destruction</u>	<u>BAAQMD Condition Cond# 20099, pPart 6</u>	<u>P/every 5 years prior to the Title V Permit Renewal</u>	<u>Source Test</u>
Through-put (S1484)	<u>BAAQMD Condition 19762, Part B1</u>	Y		<u>2,505,360 barrels/ 12 consecutive month period</u>	<u>BAAQMD Condition 19762, Part B4</u>	<u>P/M and P/A</u>	<u>Records</u>
Through-put (S532)	<u>BAAQMD Condition Cond #20099, pPart 1</u>	Y		<u>Throughput shall not exceed 2,505,360 barrels during any 12 consecutive month period</u>	<u>BAAQMD Condition Cond # 20099, pPart 89</u>	<u>P/M and P/A</u>	<u>Records</u>

Table VII – IaG.4
Applicable Limits and Compliance Monitoring Requirements
S532–OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK
S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS
ABATED BY A14 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
Duration (S532)	BAAQMD <u>Condition Cond #20099, pPart 76</u>	Y		Preventative Maintenance on A-14 not to exceed 36 hours per any consecutive 12 month period	BAAQMD <u>Condition Cond #20099, pPart 940</u>	P/M	Records
Through-put (S532)	BAAQMD <u>Condition Cond #20099, pPart 76</u>	Y		There will be no liquid flow to T-532 during preventative maintenance on A-14	BAAQMD <u>Condition Cond #20099, pPart 940</u>	P/M	Records

Table VII – IG.5
Applicable Limits and Compliance Monitoring Requirements
S606–50 UNIT WASTEWATER AIR STRIPPER A FOR NO. 50 UNIT
S607–50 UNIT WASTEWATER AIR STRIPPER B FOR NO. 50 UNIT
ABATED BY S950

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Benzene</u>	<u>40 CFR 61.348(a)(1)(i) 63.647(a)</u>	<u>Y</u>		<u>10 ppmw</u>	<u>40 CFR 61.354(a)(1) 63.647(a)</u>	<u>P/M</u>	<u>Sample</u>
VOC	BAAQMD 8-2-301	Y		< 15 lb/day or < 300 ppm as total carbon	BAAQMD <u>8-2-601 BAAQMD Condition Cond# 7410, Part 6</u>	C	Temperature monitoring
<u>POC</u>	<u>40 CFR 61.348(e)</u>	<u>Y</u>		<u>Treatment system openings closed at all times except in use</u>	<u>40 CFR 61.348(e)(1) 63.647(a)</u>	<u>P/Q</u>	<u>Visual Inspection</u>

Table VII -- IG.5
Applicable Limits and Compliance Monitoring Requirements
S606-50 UNIT WASTEWATER AIR STRIPPER A FOR NO. 50 UNIT
S607-50 UNIT WASTEWATER AIR STRIPPER B FOR NO. 50 UNIT
ABATED BY S950

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	<u>40 CFR 61.349(a)(1)(i) 63.647(a)</u>	Y		<u>500 ppmv (Closed vent system)</u>	<u>40 CFR 61.349(a)(1)(i) 61.355(h) 63.647(a)</u>	<u>P/A</u>	<u>Method 21 portable hydrocarbon detector</u>
POC	<u>40 CFR 61.349(a)(1)(ii)(B)</u>	Y		<u>CVS with bypass line car-seal closed</u>	<u>40 CFR 61.354(f)(1)</u>	<u>P/M</u>	<u>Visual Inspection</u>
POC	<u>40 CFR 61.349(a)(1)(iii) 63.647(a)</u>	Y		<u>Gas tight (500 ppmv) (Gauging & Sampling devices)</u>	<u>40 CFR 61.355(h) 63.647(a)</u>	<u>N</u>	<u>Method 21 portable hydrocarbon detector</u>
POC	<u>40 CFR 61.349(a)(2)(i)(C)</u>	Y		<u>Min. residence time of 0.5 seconds @ > 760 deg. C (1400 deg. F)</u>	<u>40 CFR 61.354(c)(5) BAAQMD Condition 7410, Parts 5, 6</u>	<u>C</u>	<u>Temperature monitoring</u>
<u>Through-put</u>	<u>BAAQMD Condition# 7410, Part 2</u>	Y		<u>700 scfm total from S606 and S607 to S950</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>NMHC VOC</u>	<u>BAAQMD Condition# 7410, Part 3</u>	Y		<u>20 ppm as CH₄ methane in stream from S606 and S607 to S950, rolling hourly average</u>	<u>BAAQMD Condition# 7410, Part 6</u>	<u>C</u>	<u>Temperature monitoring</u>
H2S	<u>BAAQMD Condition# 7410, Part 4</u>	Y		<u>1 ppm in stream from S606 and S607 to S950, rolling hourly average</u>	<u>BAAQMD Condition# 7410, Part 6</u>	<u>C</u>	<u>Temperature monitoring</u>
Temperature	<u>BAAQMD Condition# 7410, Part 5</u>	Y		<u>> 1500° F at S950</u>	<u>BAAQMD Condition# 7410, Part 6</u>	<u>C</u>	<u>Temperature monitoring</u>

Table VII – G.6CA
Cluster 28
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S699 – Tank A-699, S714 – Tank A-714
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Type of Limit	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	BAAQMD 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-603.1	P/A	MOP Volume IV ST-4
VOC	BAAQMD 8-5-328.1	Y		Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	Records
VOC	BAAQMD 8-5-328.1	Y		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2	P/A	Annual source test using MOP; Vol. IV, ST-7
VOC	BAAQMD 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after cleaning	BAAQMD 8-5-503	periodic each time emptied & degassed	portable hydrocarbon detector
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	records
				Requirement for S699			
POC	40 CFR 60.692-3(a)(3) 60.692-3(a)(4)	Y		No cracks or gaps between the roof and wall and openings closed and gasketed properly	40 CFR 60.692-3(a)(4)	P/SA	Visual Inspections
POC	40 CFR 60.692-3(a)(2) 60.692-5	Y		Purge closed vent system to control device Closed vent system standards	<u>None (when routed to fuel gas system)</u> 40 CFR 60.691 [closed vent system]	N	N/A Exemption for gasees routed to refinery fuel gas system

Table VII – G.6CA
Cluster 28
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S699 – Tank A-699, S714 – Tank A-714
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC Organic compounds	BAAQMD 8-8-305.2	N		Control device standards; includes 70% efficiency 70% collection and destruction efficiency of organic compounds, by weight	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-305.2	Y		Control device standards; includes 70% efficiency	SIP 8-8-602	N	Source Test
NONE	40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries EXEMPT per 63.640(d)(5) – <u>The affected source subject to this subpart does not include emission points routed to a fuel gas system</u>						
Refinery MACT	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR CONTROL DEVICES						
HAP	63.646(a) 63.119 (e)(1) & (2)	Y		Control device standards; includes 95% efficiency requirement (or 90% if older than 7/15/94), or a flare per 63.11(b)	63.646(a) 63.120 (d)(5), (e)(4)	as approved	specified parameter
HAP	63.646(a) 63.119 (e)(3)	Y		Limits on hours of planned routine maintenance of the control device	63.646(a) 63.120 (d)(4)	periodic semiannually	reports
HAP	63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	Y		Standards for openings in the cover (unless maintained under negative pressure)	63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	periodic initially & semiannually	visual inspection
HAP	63.646(a) 63.120 (d)(6), (e)(5)	Y		Closed vent system leak tightness standards (< 500 ppmw unless	63.646(a) 63.120 (d)(6), (e)(5)	periodic initially & annually	sensory inspection (and, if ductwork, by

Table VII – G.6CA
Cluster 28
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S699 – Tank A-699, S714 – Tank A-714
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Type of Limit	Emission Limit Citation Citation of Limit	FE Y/N	Future Effective Date	Emission Limit Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	63.148 (b)(1) & (2)			maintained under negative pressure)	63.148 (b)(1) & (2)		Method 21)
HAP	63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	Y		Cover leak tightness standards (unless maintained under negative pressure)	63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	periodic initially & semiannually	sensory inspection
HAP	63.646(a) 63.120 (d)(6), (e)(5) 63.148(f)	Y		Closed vent systems by-pass line standards (unless maintained under negative pressure)	63.646(a) 63.120 (d)(6), (e)(5) 63.148(f)	periodic every 15 min for flow indicator; monthly for ear seal	visual inspection

Table VII – AZ-1G.7
Applicable Limits and Compliance Monitoring Requirements
S700 - Tank A-700
API Separator Sludge Tank

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-305.1	N		No cracks or gaps greater than 0.125 inch in roof or between roof and wall	BAAQMD 8-8-305.1	P/SA	Visual Inspection

Table VII – ~~AZ-1G.7~~
Applicable Limits and Compliance Monitoring Requirements
S700 - Tank A-700
API Separator Sludge Tank

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>SIP 8-8-305.1</u>	<u>Y</u>		<u>No cracks or gaps greater than 0.125 inch in roof or between roof and wall</u>	<u>SIP 8-8-305.1</u>	<u>P/SA</u>	<u>Visual Inspection</u>
POC	BAAQMD 8-8-305.2	Y		Vapor recovery system with combined collection and destruction efficiency of at least 70% by weight	BAAQMD Condition #21053 part 6	P/ every 5 years prior to the Title V Permit Renewal	-Source Test
VOC	40 CFR 60.692-3(a)	Y		Fixed roof closure standards	40 CFR 60.692-3(a)(4)	periodic initially and semi-annually	Visual inspection
VOC		Y		Problems identified during 40 CFR 60.692-3(a) inspections that could result in VOC emissions	40 CFR 60.697(e)	periodic when problem is identified	Records
VOC		Y		Problems identified during 40 CFR 60.692-3(a) inspections that could result in VOC emissions	40 CFR 60.698(e)	periodic initially and semi-annually	Report

Table VII – IG.8
Applicable Limits and Compliance Monitoring Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
ABATED BY A39 OR ABATED BY A14 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	<u>40 CFR 60.692-3(a)(3)</u> <u>60.692-3(a)(4)</u>	<u>Y</u>		<u>No cracks or gaps between roof and wall and openings closed and gasketed properly</u>	<u>40 CFR 60.692-3(a)(4)</u>	<u>P/SA</u>	<u>Visual Inspection</u>
Pressure	<u>BAAQMD Condition 7406, Part B3</u>	<u>Y</u>		<u>Air space below DNF covers controlled to pressure less than atmospheric</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VOC	<u>BAAQMD 8-8-114</u>	<u>Y/N</u>		<u>Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent Exemption: Bypassed Oil Water Separator or Air Flotation Influent: exemption from 8-8-301, 302, and 307 for wastewater that bypasses either the oil water separator or air flotation unit provided that: the requirements of 8-8-501 are met and the District did not predict a federal ozone excess for that day</u>	<u>BAAQMD 8-8-501 8-8-601</u>	<u>P/E Initially and then Semi-annually</u>	<u>Records and sample analysis records of amount of bypassed wastewater, duration, date, causes for bypasses, and dissolved critical OC conc. (volume)</u>
VOC	<u>SIP 8-8-114</u>	<u>Y</u>		<u>Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent</u>	<u>SIP 8-8-501 8-8-601</u>	<u>P/E</u>	<u>Records and sample analysis</u>
VOC	<u>BAAQMD 8-8-302.3</u>	<u>Y</u>		<u>95% collection and destruction [API Separator]</u>	<u>BAAQMD 8-8-602</u>	<u>N</u>	<u>Source Test</u>
VOC	<u>SIP 8-8-302.3</u>	<u>Y</u>		<u>95% collection and destruction [API Separator]</u>	<u>BAAQMD 8-8-602</u>	<u>N</u>	<u>Source Test</u>

Table VII – IG.8
Applicable Limits and Compliance Monitoring Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
ABATED BY A39 OR ABATED BY A14 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
VOC	BAAQMD 8-8-302.6	N		Vapor tight roof seals, fixed covers, access doors, openings [API Separator]	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-307.2	N		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-307.2	Y		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test
Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer							
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
POC	40 CFR 60.692-5(a)	Y		Combustion devices ≥ 95% destruction efficiency or ≥ 0.75 seconds and ≥ 816°C	40 CFR 60.695(a)(1)	C	Temperature monitor & recorder
POC	40 CFR 60.692-5(e)(1)	Y		500 ppm (Closed vent system)	40 CFR 60.692-5(e)(1)	P/SA	Method 21 portable hydrocarbon detector
POC	40 CFR 60.692-5(e)(2)	Y		Purge closed vent system to control device	40 CFR 60.692-5(e)(3)	C	Flow Indicator

Table VII – IG.8
Applicable Limits and Compliance Monitoring Requirements
S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)
ABATED BY A39 OR ABATED BY A14 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	40 CFR 60.692-5(e)(4)	Y		Gas Tight (500 ppm) (Gauging and Sampling devices)	40 CFR 60.696(b)	N	Method 21 portable hydrocarbon detector
Temperature	BAAQMD Condition 7406, Part B10			A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
Applicable requirements when S-819 is Abated by A14 Vapor Recovery							
POC	40 CFR 60.692-3(a)(2) 60.692-5	Y		Purge closed vent system to control device Closed vent system standards	40 CFR 60.691 [closed vent system]	N	Exemption for gasees routed to refinery fuel gas system
NONE	40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system						

Table VII – G.9
Applicable Limits and Compliance Monitoring Requirements
S830 – WASTEWATER SURGE PONDS
S831–BIO-OXIDATION POND,
S842–WASTEWATER TREATMENT PLANT
S1101, S1102, S1103, S1104-SUBSURFACE AERATOR SYSTEMS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation 8, Rule 8 Exempt per 8-8-113						

Table VII -- AG.10
Applicable Limits and Compliance Monitoring Requirements
S1026-DNF EFFLUENT AIR STRIPPER
ABATED BY A39 THERMAL OXIDIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOG	8-8-307.2	Y		70% by weight collection and destruction	8-8-503	P/initially and then at various intervals thereafter	Records of inspections and repairs
NMHC	BAAQMD Cond# 4587, part 5A	Y		<10 ppm NMHC as C1 on rolling one hour basis if abated by A39	BAAQMD Cond# 4587, part 6	P/D	HC monitoring and recording
	BAAQMD Cond# 4587, part 5B	Y		<20 ppm NMHC as C1 on rolling one hour basis if abated by A38	BAAQMD Cond# 4587, part 6	P/D	HC monitoring and recording
Temperature	BAAQMD Cond# 4587, part 9			> 1350 ^o F. at A39 when abating S1026	BAAQMD Cond# 4587, part 10	C	Temperature monitoring
H2S	BAAQMD Cond# 4587, part 6	Y		<1 ppm H2S on rolling one hour basis	BAAQMD Cond# 4587, part 8	P/D	H2S monitoring and recording
<u>None</u>	<u>BAAQMD Regulation 8, Rule 8 Exempt per 8-8-113</u>						
<u>Pressure</u>	<u>BAAQMD Condition 7406, Part B3</u>	<u>Y</u>		<u>Air space below DNF covers controlled to pressure less than atmospheric</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>NMHC</u>	<u>BAAQMD Condition 7406, Part B5A</u>	<u>Y</u>		<u>< 10 ppm NMHC as C1 on rolling one hour basis from A39</u>	<u>BAAQMD Condition 7406, Parts B10, B11</u>	<u>C</u>	<u>Temperature monitoring</u>
<u>H2S</u>	<u>BAAQMD Condition 7406, Part B7</u>	<u>Y</u>		<u>< 1 ppm H2S from A39</u>	<u>BAAQMD Condition 7406, Parts B10, B11</u>	<u>C</u>	<u>Temperature monitoring</u>
<u>Temperature</u>	<u>BAAQMD Condition 7406, Part B10</u>			<u>A39 > 1350° F</u>	<u>BAAQMD Condition 7406, Parts B10, B11</u>	<u>C</u>	<u>Temperature monitoring</u>

SECTION H SULFUR AND AMMONIA PROCESSING

Table VII – H.1
Applicable Limits and Compliance Monitoring Requirements
S851–AMMONIA RECOVERY UNIT

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
POC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test

Table VII – AKH.2
Applicable Limits and Compliance Monitoring Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
SO2/H2S	BAAQMD 9-1-301	Y		ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	at the request of the District, 9-1-501 requires compliance with BAAQMD 1-510	C	SO2-CEM
SO2/H2S	BAAQMD 9-1-307	Y		SO2 emission limits for sulfur recovery plants which emit 100 lb/day SO2 or more (250 ppmv, dry, at 0% oxygen)	BAAQMD 9-1-502 1-520.4 (9-1-502 requires compliance with BAAQMD 1-520 and 522)	C	SO2 CEM

Table VII — AKH.2
Applicable Limits and Compliance Monitoring Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition #267, Part 5 40 CFR 60.104 (a)(2)(i) 60.105 (e)(4)(i) MACT Subpart UUU 63.1568 (a)(1) BAAQMD Condition 267, Part 5	Y		250 ppmv, dry, at 0% excess air, 12 hour average	40 CFR 60.105(a)(5) MACT Subpart UUU 63.1568 (b)(1) 63.1568 (c)(1) BAAQMD Condition 267, Part 5	C	SO2 CEM
<u>SO2</u>	<u>BAAQMD Condition 267, Part 2</u>	<u>Y</u>		<u>4 lbs/ton of sulfur processed</u>	<u>BAAQMD Condition 267, Part 3</u>	<u>P/M</u>	<u>Records</u>
O2	<u>BAAQMD Condition 267, Part 5</u>	Y		No Limit	40 CFR 60.105(a)(5) MACT Subpart UUU 63.1568 (b)(1) 63.1568(c)(1) BAAQMD Condition 267, Part 5	C	O2 CEM
SO2	BAAQMD Regulation 9-1-307	Y		250 ppmv, dry, at 0% oxygen	Regulation 1-520.4	C	CEM
<u>Visible Emissions Opacity</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>	<u>04/01/04</u>	<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> Ringelmann No. 1	<u>BAAQMD Condition 21053, Part 2</u>	<u>P/M</u>	<u>Opacity Test Visible Inspection</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 21053, Part 2</u>	<u>P/M</u>	<u>Visible Inspection</u>

Table VII — AKH.2
Applicable Limits and Compliance Monitoring Requirements
S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT
ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VP Visible Particles FP	BAAQMD 6-1-305	N Y		Prohibition of nuisance prohibits visible particulates sufficient to cause annoyance	#None	N	N/A None
VP Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	#None	N	N/A None
FPPM	SIP BAAQMD 6-310	Y		0.15 grain/dscf	None BAAQMD 6-310	N P/A	N/A Source Test
FP	BAAQMD 6-1-311	N Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	#None	N	N/A None
FP	SIP 6-311	Y		4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
SO3, H2SO4	BAAQMD 6-1-330	N Y	04/01/04	183 mg/dscm (0.08 grain/dscf) exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	BAAQMD Condition 19528, p Part 9	P/A	Source Test
SO3, H2SO4	SIP 6-330	Y		183 mg/dscm (0.08 grain/dscf) exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	BAAQMD Condition 19528, Part 9	P/A	Source Test

Table VII – ~~ALH.3~~
Applicable Limits and Compliance Monitoring Requirements
S1404-SULFUR STORAGE TANK
ABATED BY A1422

Type of Limit	Emission Limit-Citation of Limit	FE Y/N	Future Effective Date	Emission-Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions Opacity	BAAQMD 6- 1 -301	N Y	04/01/04	> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1	BAAQMD Condition 21053, Part 2	P/M	Opacity Test Visible <u>Inspection</u>
Visible Emissions	<u>SIP</u> 6-301	Y		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 21053, Part 2</u>	<u>P/M</u>	<u>Visible Inspection</u>
VP Visible Particles P	BAAQMD 6- 1 -305	N Y		p Prohibition of nuisance fallout	n None	N	N/A
VP Visible Particles	<u>SIP</u> 6-305	Y		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6- 1 -310	N Y		0.15 grain/dscf	n None	N	N/A
<u>FP</u>	<u>SIP</u> 6-310	Y		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6- 1 -311	N Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	n None	N	N/A
<u>FP</u>	<u>SIP</u> 6-311	Y		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
PM [A1422]	BAAQMD Condition 8535, Part 1	Y		0.01 grains/dscf from <u>A1422</u>	BAAQMD Condition 8535, Part 3	P/DC	Pressure Drop Monitor on A-1422
Pressure drop [A1422]	<u>BAAQMD Condition 8535, Part 3</u>	Y		<u>>= 9 inches water gauge pressure drop across A1422</u>	<u>BAAQMD Condition 8535, Part 3</u>	<u>C</u>	<u>Pressure Drop Monitor</u>

Table VII – AMH.4
Applicable Limits and Compliance Monitoring Requirements
S1405-SULFUR COLLECTION PIT
ABATED BY S1401 SRU OR S1411 SAP

Type of Limit	Emission Limit-Citation of Limit	FE Y/N	Future Effective Date	Emission-Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6- <u>1</u> -301	<u>N</u> Y	04/01/04	<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> Ringelmann No. 1	None	N	N/A
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles PM</u>	BAAQMD 6- <u>1</u> -305	<u>N</u> Y	04/01/04	p <u>Prohibition of nuisance fallout</u>	None	N	N/A
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6- <u>1</u> -310	<u>N</u> Y	04/01/04	0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6- <u>1</u> -311	<u>N</u> Y	04/01/04	4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII-ANH.5
S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	SIP 9-1-308.2	Y		gaseous emissions from any source at an H2SO4 plant shall not exceed 300 ppmv @ 12% oxygen	SIP 9-1-502	C	CEM
SO2	BAAQMD Regulation 9-1-309	Y		gaseous emissions from any source at an H2SO4 plant shall not exceed \leq 300 ppm @ 12% oxygen	BAAQMD Regulation 9-1-502 9-1-605 1-520.3	C	CEM
Acid mist (SAM)	BAAQMD Regulation 12-6-301	N		gaseous emissions from an H2SO4 production unit shall not exceed \leq 0.15 g/kg (0.3 lb/ton) of acid produced	<u>BAAQMD Condition 19528, Part 20</u>	<u>P/A</u>	<u>Source Test</u>
Acid mist (SAM)	40 CFR 60.31d	Y		Guideline: 0.25 g/kg (0.5 lb/ton) of acid produced	<u>BAAQMD Condition 19528, Part 20</u>	<u>P/A</u>	<u>Source Test</u>
SO3 and H2SO4	BAAQMD 6- 1 -320	N Y		0.04 grain/dscf	<u>BAAQMD Condition 19528, Part 20</u>	<u>P/A</u>	<u>Source Test</u>
<u>SO3 and H2SO4</u>	<u>SIP 6-320</u>	<u>Y</u>		<u>0.04 grain/dscf</u>	<u>BAAQMD Condition 19528, Part 20</u>	<u>P/A</u>	<u>Source Test</u>
<u>Visible Emissions</u> <u>Opacity</u>	BAAQMD 6- 1 -301	N Y	04/01/04	\geq Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1	BAAQMD Condition 21053, Part 2	P/M	<u>Opacity Test</u> <u>Visible Inspection</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		\geq Ringelmann No. 1 for no more than 3 minutes/hour	<u>BAAQMD Condition 21053, Part 2</u>	<u>P/M</u>	<u>Visible Inspection</u>
FP	BAAQMD 6- 1 -310	N Y		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII-ANH.5
S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	BAAQMD 6-1-311	<u>N</u>		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr 36.5 lb/hr	N None	N	N/A
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	<u>N</u>	<u>N/A</u>
<u>VP</u> Visible Particles	<u>BAAQMD 6-1-305</u>	<u>N</u>		Prohibition of nuisance	None	<u>N</u>	<u>N/A</u>
<u>VP</u> Visible Particles	<u>SIP 6-305</u>	<u>Y</u>		Prohibition of nuisance	None	<u>N</u>	<u>N/A</u>
	SIP 6-301	<u>Y</u>	04/01/04	Ringelmann No. 1	BAAQMD Condition 21053 Part 2	P/M	Opacity Test

Table VII-APH.6
S1413-#1 OLEUM STORAGE TANK₂
S1414-#2 OLEUM STORAGE TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions</u> Opacity	<u>BAAQMD 6-1-301</u>	<u>N</u>		\geq Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1	None	N	<u>N/A</u>
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		\geq Ringelmann No. 1 for no more than 3 minutes/hour	None	<u>N</u>	<u>N/A</u>
<u>VP</u> Visible Particles	<u>BAAQMD 6-1-305</u>	<u>N</u>		Prohibition of nuisance	None	<u>N</u>	<u>N/A</u>
<u>VP</u> Visible Particles	<u>SIP 6-305</u>	<u>Y</u>		Prohibition of nuisance			

Table VII-APH.6
S1413-#1 OLEUM STORAGE TANK₂
S1414-#2 OLEUM STORAGE TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2SO4 and SO3	<u>BAAQMD</u> 12-10-401	N		Combined H2SO4 and SO3 > 0.01 grams/m ³ or 2 ppm as H2SO4, over any 10 min	<u>BAAQMD</u> <u>12-10-401</u>	N	<u>Oleum Transfer Procedures</u>

Table VII-AQH.7
S1415-LOADING DOCK (SULFURIC ACID)
~~**S1416-#1 SPENT ACID STORAGE TANK**~~
ABATED BY A1404 (BRINKS MIST ELIMINATOR)
ABATED BY A1525 (SRU STACK INCINERATORS)
~~**S1417-#2 SPENT ACID STORAGE TANK**~~

Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	<u>BAAQMD</u> <u>6-1-301</u>	N <u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> Ringelmann No. 1	#None	N	N/A
<u>Visible Emissions</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD 6-1-305	N <u>Y</u>		<u>Prohibition of nuisance prohibits visible particles sufficient to cause annoyance</u>	#None	N	N/A
FP	<u>SIP</u> <u>6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>H2SO4 and SO3</u>	<u>BAAQMD</u> <u>12-10-401</u>	<u>N</u>		<u>Combined H2SO4 and SO3 > 0.01 grams/m³ or 2 ppm as H2SO4, over any 10 min</u>	<u>BAAQMD</u> <u>12-10-401</u>	<u>N</u>	<u>Oleum Transfer Procedures</u>

Table VII-AQH.7
S1415-LOADING DOCK (SULFURIC ACID)
~~S1416-#1 SPENT ACID STORAGE TANK~~
ABATED BY A1404 (BRINKS MIST ELIMINATOR)
ABATED BY A1525 (SRU STACK INCINERATORS)
~~S1417-#2 SPENT ACID STORAGE TANK~~

Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>VP</u> Visible ParticlesOC	BAAQMD 8-2-301	Y	10/31/06	15 lbs/day & 300 ppm total carbon, dry basis miscellaneous operations shall not emit more than 15 lb/day and containing a concentration of more than 300 ppm total carbon on a dry basis	BAAQMD 8-2-601 BAAQMD Condition 19528 pPart 10	P/every 5 years	BAAQMD source test method or EPA Method 25 or 25A

Table VII-ARH.8
Applicable Limits and Compliance Monitoring Requirements
~~S1421-AMMONIA RECOVERY UNIT FEED TANK, TANK 757~~
~~S1422-AMMONIA RECOVERY UNIT FEED TANK, TANK 782~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC</u>	<u>BAAQMD 8-2-301</u>	<u>Y</u>		15 lbs/day & 300 ppm total carbon, dry basis	<u>BAAQMD 8-2-601</u>	<u>N</u>	<u>Source test</u>
<u>Through-put (S1421) POC</u>	BAAQMD Condition # 13282, Part 1	Y		2,490,000 BBL per 12 month period	BAAQMD Condition #13282, Part 54a and 5b	P/Monthly	Record keeping

SECTION J MISCELLANEOUS ORGANIC SOURCES (INCLUDING FUGITIVE COMPONENTS)

Table VII – ~~CFJ.1~~
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>BAAQMD Regulation 8, Rule 18 and SIP Regulation 8, Rule 18</u>							
<u>POC</u>	<u>BAAQMD</u> <u>8-18-300</u>	<u>Y</u>		<u>Valves < 100 ppm,</u> <u>Pumps < 500 ppm,</u> <u>Compressors < 500 ppm,</u> <u>Connectors < 100 ppm,</u> <u>PRDs < 500 ppm</u> <u>General Equipment < 100 ppm</u>	<u>BAAQMD</u> <u>8-18-401.5</u>	<u>P/E</u> <u>(24 hrs after</u> <u>repair/mini-</u> <u>mization)</u>	<u>Method 21</u> <u>Inspection</u>
<u>POC</u>	<u>BAAQMD-Reg.</u> <u>8-18-301</u>	<u>Y</u>		<u>General equipment leak ≤</u> <u>100 ppm</u>	<u>BAAQMD-Reg.</u> <u>8-18-401.2</u> None	<u>P/QP/E</u>	<u>Method 21</u> <u>Inspection</u>
<u>POC</u>	<u>BAAQMD-Reg.</u> <u>8-18-302.1</u> <u>8-18-302.2</u>	<u>Y</u> N		<u>Valve leak ≤ 100 ppm</u>	<u>BAAQMD-Reg.</u> <u>8-18-401.2</u>	<u>P/Q</u>	<u>Method 21</u> <u>Inspection</u>
<u>POC</u>	<u>BAAQMD-</u> <u>8-18-302.1</u> <u>8-18-302.2</u>	<u>N</u>		<u>Inaccessible Valve leak</u> <u>< 100 ppm or</u> <u>minimize in 24 hours, repair</u> <u>in 7 days</u>	<u>BAAQMD</u> <u>8-18-401.3</u>	<u>P/A</u>	<u>Method 21</u> <u>Inspection</u>
<u>VOC</u>	<u>BAAQMD</u> <u>8-18-302.3</u> <u>8-18-306.2</u> <u>8-18-306.3</u> <u>8-18-306.4</u>	<u>N</u>		<u>Non-repairable valves</u>	<u>BAAQMD</u> <u>8-18-401.9</u>	<u>P/Q</u>	<u>Method 21</u> <u>inspection</u>
<u>VOC</u>	<u>BAAQMD</u> <u>8-18-302.3</u> <u>8-18-306.4</u>	<u>N</u>		<u>Mass emission rate</u> <u><= 15 lb/day for valve with</u> <u>major leak (>= 10,000 ppm)</u>	<u>BAAQMD</u> <u>8-18-306.4</u> <u>8-18-604</u>	<u>P/E within</u> <u>45 days of</u> <u>leak</u> <u>discovery</u>	<u>Mass</u> <u>Emission</u> <u>Sampling</u>
<u>VOC</u>	<u>BAAQMD</u> <u>8-18-302.3</u> <u>8-18-306.4</u>	<u>N</u>		<u>Mass emission rate</u> <u><= 15 lb/day for non-</u> <u>repairable valve with major</u> <u>leak (>= 10,000 ppm)</u>	<u>BAAQMD</u> <u>8-18-401.10</u> <u>8-18-604</u>	<u>P/A</u>	<u>Mass</u> <u>Emission</u> <u>Sampling</u>
<u>POC</u>	<u>BAAQMD-Reg.</u> <u>8-18-303.1</u> <u>8-18-303.2</u>	<u>Y</u> N		<u>Pump and compressor leak ≤</u> <u>500 ppm</u>	<u>BAAQMD-Reg.</u> <u>8-18-401.2</u>	<u>P/Q</u>	<u>Method 21</u> <u>Inspection</u>

Table VII – ~~CFJ.1~~
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER 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	<u>BAAQMD</u> <u>8-18-304.1</u> <u>8-18-304.2</u>	N		Connection leak < 100 ppm	<u>BAAQMD</u> <u>8-18-401.6</u>	P/E (Annually or EPA-approved connection inspection program)	<u>Method 21</u> <u>Inspection</u>												
POC	BAAQMD-Reg. <u>8-18-304.1</u> <u>8-18-304.2</u>	Y N		Connection leak ≤ 100 ppm	BAAQMD-Reg. <u>8-18-401.1</u> 2e	P/E (90 days after turnaround startup) Q	<u>Method 21</u> <u>Inspection</u>												
POC	BAAQMD-Reg. 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm	BAAQMD-Reg. 8-18-401.2 <u>8-18-401.7</u>	P/Q	<u>Method 21</u> <u>Inspection</u>												
POC	<u>BAAQMD</u> <u>8-18-305</u>	Y		Inaccessible pressure relief valve leak < 500 ppm	<u>BAAQMD</u> <u>8-18-401.3</u>	P/A	<u>Method 21</u> <u>Inspection</u>												
POC	BAAQMD- <u>8-18-305</u>	Y		Pressure relief valve leak < 500 ppm	<u>BAAQMD</u> <u>8-18-401.8</u>	P/E (5 working days after release)	<u>Method 21</u> <u>Inspection</u>												
POC	BAAQMD-Reg. 8-18-306.1	Y N		Valve, connector, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	<u>BAAQMD</u> <u>8-18-502.4</u> None	P/QP/E	<u>Report</u> Inspection												
POC	<u>BAAQMD</u> <u>8-18-302.3</u> <u>8-18-303.3</u> <u>8-18-304.3</u> <u>8-18-306.2</u> <u>8-18-306.3</u> <u>8-18-306.4</u>	N		<table border="1"> <thead> <tr> <th colspan="2">Maximum percentage awaiting repair</th> </tr> <tr> <th>Components</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Valves (including with major leaks) and connectors per 8-18-306.3</td> <td>0.30</td> </tr> <tr> <td>Valves with major leaks per 8-18-306.4</td> <td>0.025</td> </tr> <tr> <td>Pressure Reliefs</td> <td>1.0</td> </tr> <tr> <td>Pumps and Compressors</td> <td>1.0</td> </tr> </tbody> </table>	Maximum percentage awaiting repair		Components	%	Valves (including with major leaks) and connectors per 8-18-306.3	0.30	Valves with major leaks per 8-18-306.4	0.025	Pressure Reliefs	1.0	Pumps and Compressors	1.0	<u>BAAQMD</u> <u>8-18-502.4</u> <u>BAAQMD</u> <u>8-18-306.1</u>	P/Q P/E	<u>Report</u> <u>Repair/replace within 5 years or at next scheduled turnaround, whichever is first</u>
Maximum percentage awaiting repair																			
Components	%																		
Valves (including with major leaks) and connectors per 8-18-306.3	0.30																		
Valves with major leaks per 8-18-306.4	0.025																		
Pressure Reliefs	1.0																		
Pumps and Compressors	1.0																		

Table VII – ~~CFJ.1~~
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER 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	BAAQMD Reg. 8-18-306.2	Y		Awaiting repair Valves $\leq 0.5\%$ Pressure Relief $\leq 1\%$ Pump and Connector $\leq 1\%$	BAAQMD Reg. 8-18-401.5	P/24 hours	Inspection
POC	BAAQMD Reg. 8-18-306.2	Y		Awaiting repair Valves $\leq 0.5\%$ Pressure Relief $\leq 1\%$ Pump and Connector $\leq 1\%$	BAAQMD Reg. 8-18-502.4	P/E	records
POC	BAAQMD Reg. 8-18-306.3.2	Y		Mass emissions & non-repairable equipment allowed Valve ≤ 0.1 lb/day & $\leq 1.0\%$ Pressure Relief ≤ 0.2 lb/day & $\leq 5\%$ Pump and Connector ≤ 0.2 lb/day & $\leq 5\%$	BAAQMD Reg. 8-18-401.3	P/D	Inspection
POC	BAAQMD Reg. 8-18-306.3.3	Y		Total valve, pressure relief, pump or compressor leaks ≥ 15 lb/day, they must be repaired within 7 days	None	N	
POC	BAAQMD Reg. 8-18-307	Y		Liquid Leak more than 3 drops/min, unless minimized with 24 hrs & repaired within 7 days	None	P/E	<u>Inspection Records</u>
<u>POC</u>	<u>BAAQMD 8-18-403</u>	<u>Y</u>		<u>No evidence of leak in Pumps and Compressors</u>	<u>BAAQMD 8-18-403</u>	<u>P/D</u>	<u>Visual Inspection</u>
<u>POC</u>	<u>BAAQMD 8-18-403</u>	<u>Y</u>		<u>Pumps and Compressors with Evidence of Leak on visual inspection</u>	<u>BAAQMD 8-18-403</u>	<u>P/E</u>	<u>Method 21 Inspection</u>
<u>POC</u>	<u>SIP 8-18-302</u>	<u>Y</u>		<u>Valve leak < 100 ppm or minimize in 24 hours, repair in 7 days</u>	<u>SIP 8-18-401.2</u>	<u>P/Q</u>	<u>Method 21 Inspection</u>
<u>POC</u>	<u>SIP 8-18-302</u>	<u>Y</u>		<u>Inaccessible Valve leak < 100 ppm or minimize in 24 hours, repair in 7 days</u>	<u>SIP 8-18-401.3</u>	<u>P/A</u>	<u>Method 21 Inspection</u>

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Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER 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	<u>SIP</u> <u>8-18-303</u>	<u>Y</u>		Pump and compressor leak < 500 ppm or minimize in 24 hours, repair in 7 days	<u>SIP</u> <u>8-18-401.2</u>	<u>P/Q</u>	<u>Method 21 Inspection</u>
POC	<u>SIP</u> <u>8-18-304.2</u>	<u>Y</u>		Connection leak < 100 ppm or minimize in 24 hours, repair in 7 days	<u>SIP</u> <u>8-18-401.6</u>	<u>P/E</u> (Annually or EPA-approved connection inspection program)	<u>Method 21 Inspection</u>
POC	<u>SIP</u> <u>8-18-304.2</u>	<u>Y</u>		Connection leak < 100 ppm or minimize in 24 hours, repair in 7 days	<u>SIP</u> <u>8-18-401.1</u>	<u>P/E</u> (90 days after turnaround startup)	<u>Method 21 Inspection</u>
POC	<u>SIP</u> <u>8-18-306.1</u>	<u>Y</u>		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	<u>SIP</u> <u>8-18-502.4</u>	<u>P/Q</u>	<u>Report</u>
POC	<u>SIP</u> <u>8-18-306.2</u>	<u>Y</u>		Awaiting repair Valves < 0.5% Pressure Relief < 1% Pumps and Compressors < 1%	<u>SIP</u> <u>8-18-502.4</u>	<u>P/Q</u>	<u>Report</u>
POC	BAAQMD Reg.8-28-301	Y		10,000 ppm	8-28-402	P/Q	
POC	BAAQMD Reg.8-28-303	N		Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency or Meet Prevention Measures Procedures	8-28-405	P/turn-around	

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FUGITIVE COMPONENTS, EXCLUDING WASTEWATER 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	BAAQMD Reg.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 year	
BAAQMD Regulation 11, Rule 7 - Components in Benzene Service							
POC	<u>BAAQMD 11-7-302</u>	<u>N</u>		<u>Pumps < 10,000 ppm</u>	<u>BAAQMD 11-7-501</u>	<u>P/M</u>	<u>Method 21 Inspection</u>
POC	<u>BAAQMD 11-7-302</u>	<u>N</u>		<u>No Pump Leak Indicated by Dripping Liquid</u>	<u>BAAQMD 11-7-401</u>	<u>P/W</u>	<u>Visual Inspection</u>
POC	<u>BAAQMD 11-7-302.1</u>	<u>N</u>		<u>No Pump Leak Indicated by Sensor on Seal or Barrier System</u>	<u>BAAQMD 11-7-302.1</u>	<u>P/D or C</u>	<u>Check Sensor or Audible Alarm</u>
POC	<u>BAAQMD 11-7-304</u>	<u>N</u>		<u>PRD < 500 ppm</u>	<u>BAAQMD 11-7-304.1</u>	<u>P/E 5 calendar days after pressure release</u>	<u>Method 21 Inspection</u>
POC	<u>BAAQMD 11-7-307</u>	<u>N</u>		<u>Valves < 10,000 ppm</u>	<u>BAAQMD 11-7-501 11-7-307.1</u>	<u>P/M (or P/Q if criteria met)</u>	<u>Method 21 Inspection</u>
POC	<u>BAAQMD 11-7-307.5</u>	<u>N</u>		<u>DTM Valves < 10,000 ppm</u>	<u>BAAQMD 11-7-307.5</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
POC	<u>BAAQMD 11-7-308</u>	<u>N</u>		<u>PRDs in Liquid Service, Flanges, Connectors</u>	<u>BAAQMD 11-7-308</u>	<u>P/E Within 5 calendar days after evidence of leak</u>	<u>Method 21 Inspection</u>
40 CFR 60; Subpart QQQ							
POC	60.692-2-(a)(2)	Y		adequate water seal level in active drains	60.692-2-(a)(2)	P/M	Visual inspection
	60.692-2-(a)(3)	Y		adequate water seal level in inactive drains	60.692-2-(a)(3)	P/W	Visual inspection

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FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	60.692-2(b)(2)	Y		Tight seals at junction boxes	60.692-2(b)(3)	P/SA	Visual inspection
	60.692-2(e)(2)	Y		No cracks, gaps, or problems in sewer lines	60.692-2(b)(2)	P/SA	Visual inspection
POC	60.692-5(e)(1)	Y		Closed-vent systems <500 ppm above background	60.692-5(e)(1)	P/semi annual	Measure for leaks
POC	60.692-5(a)	Y		Closed-vent systems using combustion devices shall have 0.75 seconds residence and minimum temp of 816C	60.692-5(e)(5)	P/E	Repair after emissions are detected within 30 days
POC	60.692-5(a)	Y		Combustion devices ≥ 95% destruction efficiency or ≥ 0.75 seconds and ≥ 816°C		C	Continuous temperature monitoring
POC	60.692-5(a)	Y		Combustion devices ≥ 95% destruction efficiency or ≥ 0.75 seconds and ≥ 816°C		C	flowrate
POC	60.692-5(b)	Y		Vapor recovery greater than or equal to 95%	60.695(a)(1)	C	CEM for temperature
40 CFR 60; Subpart VV – equipment leaks subject to 40 CFR 60 Subpart GGG and to 40 CFR 63 Subpart CC							
<u>BAAQMD 10-52; 10-59</u>							
VOC	NSPS Subpart VV 40 CFR 60.482-2(b)(1)	Y		Light liquid service LL pump leak ≤ 10,000 ppm	NSPS Subpart VV 40 CFR 60.482-2(a)(1) (e) 60.482-9(a), (b), (d) 60.485(a), (b) 60.486(a), (b), (c), (e) 60.487(a), (e)	P/M	Method 21 Inspection Measure for leaks and repair
VOC	40 CFR 60.482-2(a)(2) 60.482-2(d)(4)(i)	Y		LL Pump, no leak indicated by dripping liquid	40 CFR 60.482-2(a)(2)	P/W	Visual Inspection
VOC	40 CFR 60.482-2(b)(2) 60.482-2(b)(2)(i) 60.482-2(d)(4)(ii) 60.482-2(d)(4)(ii)(A)	Y		LL pump leak < 10,000 ppm after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482-2(b)(2)(i) 60.482(d)(4)(ii)(A)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection

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FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>40 CFR 60.482-2(b)(2)</u>	<u>Y</u>		<u>No limit - liquid discovered dripping from LL pump in weekly inspection</u>	<u>40 CFR 60.482-2(b)(2)(ii)</u>	<u>P/E (within 15 days of detection)</u>	<u>Designate event as leak. Repair and remove evidence of leak</u>
VOC	<u>40 CFR 60.482-2(b)(2) 60.482-2(d)(4)(ii)</u>	<u>Y</u>		<u>No limit - liquid discovered dripping from LL pump equipped with dual mechanical seal and barrier fluid system in weekly inspection</u>	<u>40 CFR 60.482-2(d)(4)(ii)(B)</u>	<u>P/E</u>	<u>Designate event as leak</u>
VOC	<u>40 CFR 60.482-2(d)(5)(ii) 60.482-2(d)(5)(iii)</u>	<u>Y</u>		<u>Pump sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion</u>	<u>40 CFR 60.482-2(d)(5)(i)</u>	<u>C or P/D</u>	<u>Sensor with audible alarm or checked daily</u>
VOC	<u>40 CFR 60.482-2(e)</u>	<u>Y</u>		<u>Pump designated for “No detectable emissions” < 500 ppm</u>	<u>40 CFR 60.482-2(e)(3)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
VOC	<u>NSPS Subpart VV 40 CFR 60.482-3(d) 60.482-3(e)(2) and 60.482-3(f)</u>	<u>Y</u>		<u>Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion established in 60.482-3(e)(2).</u>	<u>NSPS Subpart VV 40 CFR 60.482-3(e)(1), (g), 60.482-9(a), (b), 60.486(a), (b), (c), (e) (h), and 60.487(a) and (e)</u>	<u>P/C or P/D</u>	<u>Sensor with audible alarm or checked daily. Repair system.</u>
VOC	<u>40 CFR 60.482-3(i)</u>	<u>Y</u>		<u>Compressor designated for “No detectable emissions” leak < 500 ppm</u>	<u>40 CFR 60.482-3(i)(2)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>

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Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	NSPS Subpart VV-40 <u>CFR</u> 60.482-4(a) 60.482-4(b)(1)	Y		<u>Gas/vapor PRD leak</u> <u><500 ppm</u> Except during pressure release, pressure relief device (gas/vapor service) must operate at no detectable emissions (<500 ppm)	NSPS Subpart VV-40 <u>CFR</u> 60.482-4(b)(2); 60.482-9(a), (b); 60.485(a), (b); 60.486(a), (e); 60.487(a), (e)	<u>P/E within 5 days after release</u>	<u>Measure for leaks within 5 days after release using Method 21 Inspection</u>
VOC	NSPS Subpart VV 60.482-4 (b)(1)	Y		<u>After each pressure release, pressure release device shall be returned to a condition of no detectable emissions (<500 ppm) within 5 calendar days after pressure release</u>	NSPS Subpart VV 60.482-4 (b)(2); 60.482-9(a), (b); 60.485(a), (b); 60.486(a), (e) and 60.487(a) and (e)	<u>P/E</u>	<u>Measure for leaks within 5 days after release using Method 21</u>
VOC	NSPS Subpart VV <u>40 CFR</u> 60.482-7(b)	Y		<u>Valve leak <=> 10,000 ppm</u>	NSPS Subpart VV <u>40 CFR</u> 60.482-7(a)(1) 60.482-7(c), (e); (d), (e); 60.482-9(a), (b); (e), (e); 60.483-2, 60.485 (a),(b); 60.486 (a), (b); (e), (e), (f) and 60.487(a) and (e)	<u>P/M or Q</u>	<u>Method 21 Inspection</u> <u>Measure for leaks and repair</u>
VOC	60.482-2 (b)(2)	Y		<u>Pump leak Indicated by dripping liquid</u>	60.482-2 (a)(2)	<u>P/W</u>	<u>Visual Inspection</u>
VOC	60.482-2(e)	Y		<u>Designated “No detectable emissions” <= 500 ppm</u>	60.482-2(e)(3)	<u>P/A</u>	<u>Measure for leaks</u>
VOC	<u>40 CFR</u> 60.482-7(f)	Y		<u>Valve designated “No detectable emissions” <= 500 ppm</u>	<u>40 CFR</u> 60.482-7(f)(3)	<u>P/A</u>	<u>Measure for leaks</u>
VOC	<u>40 CFR</u> 60.482-7(h)	<u>Y</u>		<u>Valve designated “Difficult to monitor”-(up to 3% of total valves)” leak < 500 ppm</u>	<u>40 CFR</u> 60.482-7(h)(3)	<u>P/A</u>	<u>Method 21 Inspection</u>

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>40 CFR</u> 60.482-8(a) <u>60.482-8(b)</u>	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 $\leq 10,000$ ppm	<u>40 CFR</u> 60.482-8(a)(1) <u>60.486-8(c)</u>	P/E <u>Within 5 calendar days of evidence of AVO leak</u>	Visible, Audible, or olfactory <u>Method 21 Inspection</u>
VOC	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	60.486 (e)	P/E	records
VOC	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
VOC	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
VOC	<u>40 CFR</u> 60.482-10(b)	Y		Closed vent systems and control devices: Vapor recovery systems $\geq 95\%$ or <u>exit concentration ≤ 20 ppmv</u>	<u>40 CFR</u> <u>60.482-10(e)</u>	<u>EN</u>	Continuous temperature monitoring <u>N/A</u>
VOC	60.482-10(c)	Y		<u>Enclosed cCombustion</u> devices $\geq 95\%$ destruction efficiency or ≥ 0.75 seconds and $\geq 816^{\circ}\text{C}$	<u>40 CFR</u> <u>60.482-10(e)</u>	<u>EN</u>	Continuous temperature monitoring <u>N/A</u>
VOC	60.482-10(e)	Y		Combustion devices $\geq 95\%$ destruction efficiency or ≥ 0.75 seconds and $\geq 816^{\circ}\text{C}$		<u>E</u>	flowrate
VOC	<u>40 CFR</u> <u>60.482-10(g)</u>	<u>Y</u>		<u>Hard piped closed vent systems</u> ≤ 500 ppmv	<u>40 CFR</u> <u>60.482-10(f)(1)(i)</u>	<u>P/I</u>	<u>Method 21 Inspection</u>

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-10(g)	Y		Hard piped closed vent systems – no AVO leaks	40 CFR 60.482-10(f)(1)(ii)	P/A	Visual inspection
VOC	40 CFR 60.482-10(k)	Y		Closed vent system portions designated as “Difficult to inspect” (up to 3% of total closed vent system equipment)	40 CFR 60.482-10(k)(3)	P/ every 5 years	Visual inspection
VOC	60.482-10 (g)	Y		Closed vent systems leak ≥ 500 ppm and visible leak indication	60.482-10 (f)	P/E	Measure for leaks; Visual Inspection
VOC	60.482-10 (g)	Y		Closed vent systems leak ≥ 500 ppm and visible leak indication	60.486(e)	P/E	records
VOC	40 CFR 60.483-2 and BAAQMD 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.	40 CFR 60.483-2 BAAQMD 8-18-404.1	P/Q P/A	Method 21 Inspection Measure for leaks
40 CFR 60; Subpart VVa – equipment leaks subject to 40 CFR 60 Subpart GGGa							
VOC	40 CFR 60.482-2a(b)(1)(i) or 60.482-2a(b)(1)(ii)	Y		2000 (5,000) ppm LL pumps	40 CFR 60.482-2a(a)(1)	P/M	Method 21 Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2a(d)(4)(i)	Y		LL Pump, no leak indicated by dripping liquid	40 CFR 60.482-2a(a)(2)	P/W	Visual Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2a(b)(2)(i) or (b)(2)(ii)	Y		LL pump leak < 2,000 ppm (5000 ppm) after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482-2a (b)(2)(i)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2(d)(4)(ii) 60.482-2(d)(4)(ii)(A)	Y		LL pump leak < 2,000 ppm (after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482a(d)(4)(ii)(A)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>40 CFR 60.482-2a(b)(2)</u>	<u>Y</u>		<u>No limit – Inspect after liquid discovered dripping from LL pump in weekly inspection</u>	<u>40 CFR 60.482-2a(b)(2)(ii)</u>	<u>P/E (within 15 days of detection)</u>	<u>Designate event as leak. Repair and remove evidence of leak</u>
VOC	<u>40 CFR 60.482-2a(b)(2) 60.482-2a(d)(4)(ii)</u>	<u>Y</u>		<u>No limit - liquid discovered dripping from LL pump equipped with dual mechanical seal and barrier fluid system in weekly inspection</u>	<u>40 CFR 60.482-2a(d)(4)(ii)(B)</u>	<u>P/E</u>	<u>Designate event as leak</u>
VOC	<u>40 CFR 60.482-2a(d)(5)(ii) 60.482-2a(d)(5)(iii)</u>	<u>Y</u>		<u>Pump sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion</u>	<u>40 CFR 60.482-2a(d)(5)(i)</u>	<u>C or P/D</u>	<u>Sensor with audible alarm or checked daily</u>
VOC	<u>40 CFR 60.482-2a(e)</u>	<u>Y</u>		<u>Pump designated for “No detectable emissions” < 500 ppm</u>	<u>40 CFR 60.482-2a(e)(3)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
VOC	<u>40 CFR 60.482-3a(d), 60.482-3a(e)(2) 60.482-3a(f)</u>	<u>Y</u>		<u>Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-defined criterion</u>	<u>40 CFR 60.482-3a(e)(1)</u>	<u>C or P/D</u>	<u>Sensor with audible alarm or checked daily</u>
VOC	<u>40 CFR 60.482-3a(i)</u>	<u>Y</u>		<u>Compressor designated for “No detectable emissions” leak < 500 ppm</u>	<u>40 CFR 60.482-3a(i)(2)</u>	<u>P/A</u>	<u>Method 21 Inspection</u>
VOC	<u>40 CFR 60.482-4a(a) 60.482-4a(b)(1)</u>	<u>Y</u>		<u>Gas/vapor PRD leak <500 ppm</u>	<u>40 CFR 60.482-4a(b)(2)</u>	<u>P/E within 5 days after release</u>	<u>Method 21 Inspection</u>
VOC	<u>40 CFR 60.482-7a(b)</u>	<u>Y</u>		<u>Valve leak <= 500 ppm</u>	<u>40 CFR 60.482-7a(a)(1) 60.482-7a(c)</u>	<u>P/M or Q</u>	<u>Method 21 Inspection</u>
VOC	<u>40 CFR 60.482-7a(f)</u>	<u>Y</u>		<u>Valve designated “No detectable emissions” ≤ 500 ppm</u>	<u>40 CFR 60.482-7a(f)(3)</u>	<u>P/A</u>	<u>Measure for leaks</u>

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-7a(h)	<u>Y</u>		Valve designated “Difficult to monitor”(up to 3% of total valves)” <u>leak < 500 ppm</u>	40 CFR 60.482-7(h)(3)	<u>P/A</u>	<u>Method 21 Inspection</u>
VOC	40 CFR 60.482-8a(a) 60.482-8a(b)	<u>Y</u>		<u>Pumps and valves in heavy liquid service. Pressure Relief devices (light or heavy liquid). Flanges. Connectors <= 10,000 ppm</u>	40 CFR 60.482-8a(a)(1) 60.486a(c)	<u>P/E</u> <u>Within 5 calendar days of evidence of AVO leak</u>	<u>Method 21 Inspection</u>
VOC	40 CFR 60.482-10a(b)	<u>Y</u>		<u>Vapor recovery systems >=95% or exit concentration <=20 ppmv</u>	40 CFR 60.482-10a(e)	<u>N</u>	<u>N/A</u>
VOC	40 CFR 60.482-10a(c)	<u>Y</u>		<u>Combustion devices >= 95% destruction efficiency or >= 0.75 seconds and >= 816°C</u>	40 CFR 60.482-10a(e)	<u>N</u>	<u>N/A</u>
VOC	40 CFR 60.482-10a(g)	<u>Y</u>		<u>Hard piped closed vent systems <500 ppmv</u>	40 CFR 60.482-10a (f)(1)(i)	<u>P/I</u>	<u>Method 21 Inspection</u>
VOC	40 CFR 60.482-10a(g)	<u>Y</u>		<u>Hard piped closed vent systems – no AVO leaks</u>	40 CFR 60.482-10a (f)(1)(ii)	<u>P/A</u>	<u>Visual inspection</u>
VOC	40 CFR 60.482-10a(k)	<u>Y</u>		<u>Closed vent system portions designated as “Difficult to inspect” (up to 3% of total closed vent system equipment)</u>	40 CFR 60.482-10a(k)(3)	<u>P/ every 5 years</u>	<u>Visual inspection</u>
VOC	40 CFR 60.483-2a BAAQMD 8-18-404.1	<u>Y</u>		<u>Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking >= 500 ppm.</u>	40 CFR 60.483-2a BAAQMD 8-18-404.1	<u>P/Q</u> <u>P/A</u>	<u>Measure for leaks</u>
40 CFR 61; Subpart FF							
POC	40 CFR 61.343(a)(1)(i)(A)	<u>Y</u>		<u>Tanks fittings leak ≤ 500 ppm</u>	40 CFR 61.343(a)(1)(i)(A)	<u>P/A</u>	<u>Method 21 Inspection</u>

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FUGITIVE COMPONENTS, EXCLUDING WASTEWATER 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	<u>40 CFR</u> 63.345(a)(1)(i)	<u>Y</u>		Container fittings leak ≤ to 500 ppm	<u>40 CFR</u> 63.345(a)(1)(i)	P/A	Method 21 Inspection
POC	<u>40 CFR</u> 61.347(a)(1)(i)(A)	<u>Y</u>		O/W Separator fittings leak ≤ 500 ppm	<u>40 CFR</u> 61.347(a)(1)(i) (A)	P/A	Method 21 Inspection
POC	<u>40 CFR</u> 61.349 (a)(1)(i)	<u>Y</u>		Closed-vent system fittings <500 ppm above background	<u>40 CFR</u> 61.349 (a)(1)(i)	P/A	Method 21 Inspection Measure for leaks
POC	61.354 (f)	<u>Y</u>		Closed vent bypass lines must be closed and vapors routed to the control device	61.354 (f)	P/A	Visual Inspection
40 CFR 61; Subpart V - Equipment leaks in benzene service subject to 40 CFR 61 Subpart J and not subject to 40 CFR 63 Subpart CC by overlap at 63.640(p)							
OC	61.242-2 (b)(1)			Pump leak ≥ 10,000 ppm	61.242-2 (a)(1)	P/ M	Mea sure for leaks
OC	61.242-2 (b)(2)			Pump leak Indicated by dripping liquid	61.242-2 (a)(2)	P/ W	Visu al Inspection
OC	61.242-2 (e)			Designated “No detectable emissions” ≤ 500 ppm	61.242-2 (e)(3)	P/ A	Mea sure for leaks
OC	61.242-2 (g)			Pump leak Indicated by dripping liquid at unmanned sites	61.242-2 (g)	P/ M	Visu al Inspection
OC	61.242-10 (d)			Pumps under “Delay of repair” repaired within 6 months		N	
OC	61.242-3			Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	61.242-3 (e)(1)	C	Sens or with audible alarm or checked daily
OC	61.242-4 (a)			Pressure relief valve (gas/vapor) leak ≥ 500 ppm		N	
OC	61.242-4 (b)			Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/ E	Mea sure for leaks

Table VII – ~~CFJ.1~~
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OC	61.242-7(b)			Valve leak ≥ 10,000 ppm	61.242-7(a)	P/M	Measure for leaks
OC	61.242-7(b)			Valve leak ≥ 10,000 ppm; 2 successive months w/o leaking	61.242-7(e)	P/Q	Measure for leaks
OC	61.242-7(f)			Designated “No detectable emissions” ≤ 500 ppm	61.242-7(f)(3)	P/A	Measure for leaks
POC	40 CFR 61.242-8(a)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR 61.242-8(a)	P/E	Visible, Audible, or olfactory Inspection
POC	40 CFR 61.242-8(a)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR 61.242-8(c)	P/E	R Records
POC	40 CFR 61.242-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak ≥ 10,000 ppm	40 CFR 61.242-8(a)	P/E	Measure for leaks
Permit Conditions							
POC	Condition 11609 Part B6A	Y		Pumps leak < 100 ppm (Alkylation Unit pumps abated by A14)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part A5	Y		Pumps leak < 100 ppm (AN 2508 Logistical Improvements)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part B5	Y		Pumps leak < 100 ppm (AN 2508 Flare Gas Recovery Compressors)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part C5	Y		Pumps leak < 100 ppm (AN 2508 No. 4 Gas Plant Naphtha Splitter)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part G5	Y		Pumps leak < 100 ppm (AN 2508 S1105 No. 4 HDS)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection

Table VII – ~~CFJ.1~~
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OC	61.242-11 (b)			Closed vent systems and control devices: Vapor recovery systems ≥ 95%		C	Continuous temperature monitoring
POC	61.242-11 (e)			Combustion devices ≥ 95% destruction efficiency or ≥ 0.50 seconds and ≥ 760°C		C	Continuous temperature monitoring
OC	61.482-11 (e)			Combustion devices ≥ 95% destruction efficiency or ≥ 0.50 seconds and ≥ 760°C		C	florwrate
OC	61.242-11 (g)			Closed vent systems leak ≥ 500 ppm and visible leak indication	61.242-11 (g)	P/ A/E	Measure for leaks and Visual Inspection
OC	61.242-11 (g)			Closed vent systems leak ≥ 500 ppm and visible leak indication	61.246 (e)	P/ A/E	records
OC	61.243 and BAAQMD 8-18-404.1			Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.		P/ Q P/ A	Measure for leaks

Table VII – J.210
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-28-303.1	N		Vented to vapor recovery, 95% control efficiency	None	N	N/A

Table VII – J.210
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>POC</u>	<u>SIP</u> <u>8-28-303.1</u>	<u>Y</u>		<u>Vented to vapor recovery,</u> <u>95% control efficiency</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-28-304.1</u>	<u>Y</u>		<u>Initial PRD release in 5-</u> <u>year period</u>	<u>8-28-304.1</u>	<u>P/E</u> <u>within 90</u> <u>days</u>	<u>Additional</u> <u>Process</u> <u>Hazard</u> <u>Analysis</u>
<u>POC</u>	<u>BAAQMD</u> <u>8-28-304.2</u>	<u>Y</u>		<u>Second PRD release in a 5-</u> <u>year period</u>	<u>8-28-304.2</u>	<u>P/E</u> <u>within 1</u> <u>year</u>	<u>Vent to</u> <u>vapor</u> <u>recovery,</u> <u>95% control</u> <u>efficiency</u>
<u>POC</u>	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>BAAQMD</u> <u>8-28-402.1</u>	<u>P/D</u>	<u>Visual</u> <u>inspection</u>
<u>POC</u>	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>BAAQMD</u> <u>8-28-402.2</u>	<u>P/ Within 5</u> <u>days of a</u> <u>release</u>	<u>Visual</u> <u>inspection</u>
<u>POC</u>	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>SIP</u> <u>8-28-402</u>	<u>P/ Within 5</u> <u>days of a</u> <u>release</u>	<u>Visual</u> <u>inspection</u>
<u>POC</u>	<u>None</u>	<u>N</u>		<u>No limit</u>	<u>BAAQMD</u> <u>8-28-503</u>	<u>P/E</u>	<u>Monitoring</u> <u>System</u>

Table VII – ~~LJ.3~~
Deleted. All Blowdown Towers Removed from Hydrocarbon Service
Applicable Limits and Compliance Monitoring Requirements
~~S804–BLOWDOWN TOWER CAT CRACKER W/O CONTROLS~~
~~S807–COKER BLOWDOWN DRUM~~
~~S822 – THERMAL AREA BLOWDOWN~~
~~S834–NO. 50 CRUDE UNIT BLOWDOWN DRUM W/O CONTROLS~~
~~S853–FCCU FEED SURGE DRUM, S856– SPARE DEA STRIPPER~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
<u>POC</u>	<u>BAAQMD 8-2-301</u>	<u>Y</u>		<u>15 lbs/day & 300 ppm total carbon, dry basis</u>	<u>BAAQMD 8-2-601</u>	<u>N</u>	<u>Source test</u>

Table VII – ~~OJ.4~~
Applicable Limits and Compliance Monitoring Requirements
~~S823–HEAT EXCHANGER CLEANING PIT NORTH-TANK M286~~
~~S824–HEAT EXCHANGER CLEANING PIT SOUTH-TANK M287~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-311</u>	<u>N</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – OJ.4
Applicable Limits and Compliance Monitoring Requirements
S823–HEAT EXCHANGER CLEANING PIT NORTH-TANK M286
S824–HEAT EXCHANGER CLEANING PIT SOUTH-TANK M287

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	<u>N</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann No. 1</u>	BAAQMD Condition 22227, <u>Part 1</u>	<u>P/E Hourly during tube cleaning</u>	Visual Emissions Check
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 22227, Part 1</u>	<u>P/ Hourly during tube cleaning</u>	<u>Visual Emissions Check</u>
<u>Visible Emissions</u>	<u>BAAQMD 6-1-303</u>	<u>N</u>		<u>> Ringelmann No. 2 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 22227, Part 1</u>	<u>P/ Hourly during tube cleaning</u>	<u>Visual Emissions Check</u>
<u>Visible Emissions</u>	<u>SIP 6-303</u>	<u>Y</u>		<u>> Ringelmann No. 2 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition 22227, Part 1</u>	<u>P/ Hourly during tube cleaning</u>	<u>Visual Emissions Check</u>
<u>Visible Emissions</u>		<u>Y</u>		<u>No limit</u>	<u>BAAQMD Condition # 22227, Part 1</u>	<u>P/ Hourly during tube cleaning</u>	<u>Visual inspection</u>
<u>VP Visible Particles M</u>	BAAQMD 6-1-305	<u>N</u>		<u>Prohibition of nuisance fallout</u>	<u>None</u>	N	N/A
<u>VP Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VOC	BAAQMD 8-2-301	<u>Y</u>		<u>15 lbs/day & 300 ppm total carbon, dry basis</u> miscellaneous operations shall not emit more than 15 lb/day and containing a concentration of more than 300 ppm total carbon on a dry basis	<u>BAAQMD 8-2-601</u>	N	<u>BAAQMD Source test method or EPA Method 25 or 25A</u>

Table VII – UJ.5
Applicable Limits and Compliance Monitoring Requirements
~~S857-COLD CLEANER; MACHINE SHOP GOVERNOR ROOM~~
~~S858-COLD CLEANER; MACHINE SHOP LAPPING ROOM~~
~~S859-COLD CLEANER; MACHINE SHOP~~
~~S860-COLD CLEANER; TOOL ROOM, S861-COLD CLEANER; AUTO SHOP~~
S1455-COLD CLEANER, COLD CLEANER, AUTO SHOP
S1456-COLD CLEANER, COLD CLEANER, I&E SHOP
S1457-COLD CLEANER, COLD CLEANER, COMPRESSOR SHOP
~~S1458-COLD CLEANER, COLD CLEANER, VALVE SHOP~~
S1543, S1544, S1545, S1546, S1547, S1548
MAINTENANCE SHOPS EXEMPT COLD CLEANERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		N			Regulation 8-16-501	P/M	Records
VOC	<u>BAAQMD</u> 8-16-114	Y		<u>Exemption: Emulsion or solution cleaner containing < 1% VOC</u>	<u>BAAQMD</u> 8-16-502	<u>None</u>	<u>Records</u>
VOC	<u>BAAQMD</u> 8-16-303.5.1	Y		<u>50 g/L (0.42 lb/gal) in solvent used for maintenance and repair cleaning</u>	<u>BAAQMD</u> 8-16-124 8-16-502	<u>None</u>	<u>Records</u>

Table VII – J.6H
Applicable Limits and Compliance Monitoring Requirements
~~S590-DEA Flash Drum, S848-FCCU Merox Unit, S850-No. 3 HDS Unit~~
~~S1001-No. 50 Crude Unit, S1002-No. 1 HDS Unit, S1003-No. 2 HDS Unit~~
~~S1004-No. 2 Catalytic Reformer, S1005-No. 1 Hydrogen Plant~~
~~S1006-No. 1 HDS Unit, S1007-Hydrocracker Unit, S1008-HDN Unit~~
~~S1009-Alkylation Unit, S1020-No. 3 UOP Reformer~~
~~S1100-Methyl Tertiary Butyl Ether Plant~~

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
POC	Condition 7405, Part 1	Y		14.1 lb/day from fugitive emissions	None	N	N/A
POC S-1005 CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lb/day and 300 ppm (dry basis) total carbon	BAAQMD Cond. 22070, part 1	P/A	Annual Source Test
Equipment Leak S-1007		Y			BAAQMD Condition 1910, Part 3	P/M	Visual inspection
Through-put S-1002	BAAQMD Condition 8350, Part A1	Y		28,000 bbl naphtha/day, rolling 365-day average 10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
The following applies to S1020 – No. 3 UOP Reformer							
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		≤ 10 ppmv dry at 3% O₂	40-CFR 63.1567(b)(2)	Initial	Performance test (Method 26)
pH	40-CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid ≥ performance test limit	40-CFR 63.1567(e)(1)	C	pH monitoring system

Table VII – J.6H
Applicable Limits and Compliance Monitoring Requirements
~~S590-DEA Flash Drum, S848-FCCU Merox Unit, S850-No. 3 HDS Unit~~
~~S1001-No. 50 Crude Unit, S1002-No. 1 HDS Unit, S1003-No. 2 HDS Unit~~
~~S1004-No. 2 Catalytic Reformer, S1005-No. 1 Hydrogen Plant~~
~~S1006-No. 1 HDS Unit, S1007-Hydrocracker Unit, S1008-HDN Unit~~
~~S1009-Alkylation Unit, S1020-No. 3 UOP Reformer~~
~~S1100-Methyl Tertiary Butyl Ether Plant~~

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid-to-gas ratio	40-CFR 63.1567 (a)(2)	Y		Daily average liquid-to-gas ratio in wet scrubber \geq performance test limit	40-CFR 63.1567(e)(1)	C	Liquid and gas flow meters
The following applies to S1004 – No. 3 Catalytic Reformer							
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		\leq 30 ppmv dry at 3% O ₂	40-CFR 63.1567(b)(2)	Initial	Performance Test (Method 26)
HCl	40-CFR 63.1567 (a)(1)(ii)	Y		\leq 30 ppmv dry at 3% O ₂	40-CFR 63.1567(e)(1)	P/E	Colorimetric Tube System
HCl	40-CFR 63.1567 (a)(2)	Y		Daily average HCl \leq performance test limit	40-CFR 63.1567(e)(1)	P/E	Colorimetric Tube System

Table VII – ~~J.7L~~

Applicable Limits and Compliance Monitoring Requirements

~~S804 – BLOWDOWN TOWER CAT CRACKER W/O CONTROLS~~

~~S807 – COKER BLOWDOWN DRUM~~

~~S834 – No. 50 CRUDE UNIT BLOWDOWN DRUM W/O CONTROLS~~

~~S853 – FCCU FEED SURGE DRUM, S825 – DEA REGENERATOR, S856 – SPARE DEA STRIPPER~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records

SECTION K ABATEMENT

Table VII — ~~SbK.1~~
Applicable Limits and Compliance Monitoring Requirements
A39 API/~~DNF AND DNF EFFLUENT AIR STRIPPER~~ THERMAL OXIDIZER
ABATES S819 AND S1026

~~(SEE SOURCES IN TABLE VII — I: S819 (API) AND TABLE VII — A: S1026 (AIR STRIPPER) FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS THAT ARE REQUIRED BY THE SOURCES THAT ARE ABATED BY A-39~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	60.104(a)(1)	Y		H ₂ S in fuel gas burned ≤ 230 mg/dscm (0.1 gr/dscf), EXCEPT process upset gases or emergency malfunctions	60.105(a)(3) or 60.105(a)(4)	P/C	Records SO ₂ /O ₂ or H ₂ S
<u>Visible Emissions Opacity</u>	BAAQMD 6-1-301	N		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u> <u>Ringelmann No. 1</u>	6-404None	P / E / N	N/A Visual Inspection
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>≥ Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VP <u>Visible Particles</u> FP	BAAQMD 6-1-305	N		p <u>Prohibition of nuisance fallout</u>	6-404None	P / E / N	N/A Visual Inspection
VP <u>Visible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>FP</u>	BAAQMD 6-1-310.3	N		<u>0.15 grain/dscf @ 6% O₂</u> Process Weight Limitation	None	N	None <u>N/A</u>
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VOC [OWS]</u>	<u>BAAQMD 8-8-302.3</u>	<u>N</u>		<u>95% collection and destruction</u>	<u>BAAQMD 8-8-602</u>	<u>N</u>	<u>Source test</u>
<u>VOC [OWS]</u>	<u>SIP 8-8-302.3</u>	<u>Y</u>		<u>95% collection and destruction</u>	<u>BAAQMD 8-8-602</u>	<u>N</u>	<u>Source test</u>

Table VII — ~~SbK.1~~
Applicable Limits and Compliance Monitoring Requirements
A39 API/~~DNF~~ ~~AND DNF EFFLUENT AIR STRIPPER~~ THERMAL OXIDIZER
~~ABATES S819 AND S1026~~

(SEE SOURCES IN TABLE VII — I: S819 (API) AND TABLE VII — A: S1026 (AIR STRIPPER) FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS THAT ARE REQUIRED BY THE SOURCES THAT ARE ABATED BY A-39

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	<u>BAAQMD</u> <u>8-8-302.6</u>	<u>N</u>		<u>Vapor tight roof seals, fixed covers, access doors, openings [API Separator]</u>	<u>BAAQMD</u> <u>8-8-504</u> <u>8-8-603</u> <u>SIP 8-8-603</u>	<u>N</u>	<u>Method 21 portable hydrocarbon detector</u>
VOC [DNF]	<u>BAAQMD</u> <u>8-8-307.2</u>	<u>N</u>		<u>70% by weight collection and destruction</u>	<u>BAAQMD</u> <u>8-8-602</u>	<u>N</u>	<u>Source test</u>
VOC [DNF]	<u>SIP</u> <u>8-8-307.2</u>	<u>Y</u>		<u>70% by weight collection and destruction</u>	<u>SIP</u> <u>8-8-602</u>	<u>N</u>	<u>Source test</u>
NMHC	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B5A</u>	<u>Y</u>		<u>< 10 ppm NMHC as C1 on rolling one hour basis from A39</u>	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B11</u>	<u>C</u>	<u>Temperature monitoring</u>
H2S	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B7</u>	<u>Y</u>		<u>< 1 ppm H2S from A39</u>	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B11</u>	<u>C</u>	<u>Temperature monitoring</u>
Temperature	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B10</u>			<u>A39 > 1350° F</u>	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B11</u>	<u>C</u>	<u>Temperature monitoring</u>
<u>Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer</u>							
H2S	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B7</u>	<u>Y</u>		<u>< 1 ppm H2S from A39</u>	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Parts B10, B11</u>	<u>C</u>	<u>Temperature monitoring</u>
NMHC	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Part B5A</u>	<u>Y</u>		<u>< 10 ppm NMHC as C1 on rolling one hour basis from A39</u>	<u>BAAQMD</u> <u>Condition 7406,</u> <u>Parts B10, B11</u>	<u>C</u>	<u>Temperature monitoring</u>

Table VII — ~~SbK.1~~
Applicable Limits and Compliance Monitoring Requirements
A39 API/~~DNF~~ ~~AND DNF EFFLUENT AIR STRIPPER~~ THERMAL OXIDIZER
~~ABATES S819 AND S1026~~

~~(SEE SOURCES IN TABLE VII — I: S819 (API) AND TABLE VII — A: S1026 (AIR STRIPPER) FOR APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS THAT ARE REQUIRED BY THE SOURCES THAT ARE ABATED BY A-39~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>POC</u>	<u>40 CFR 60.692-5(a)</u>	<u>Y</u>		<u>Combustion devices >=95% destruction efficiency or >=0.75 seconds and >=816°C</u>	<u>40 CFR 60.695(a)(1)</u>	<u>C</u>	<u>Temperature monitor & recorder</u>
<u>POC</u>	<u>40 CFR 60.692-5(e)(1)</u>	<u>Y</u>		<u>500 ppm (Closed vent system)</u>	<u>40 CFR 60.692-5(e)(1)</u>	<u>P/SA</u>	<u>Method 21 portable hydrocarbon detector</u>
<u>POC</u>	<u>40 CFR 60.692-5(e)(2)</u>	<u>Y</u>		<u>Purge closed vent system to control device</u>	<u>40 CFR 60.692-5(e)(3)</u>	<u>C</u>	<u>Flow Indicator</u>
<u>Temperature</u>	<u>BAAQMD Condition 7406, Part B10</u>			<u>A39 > 1350° F</u>	<u>BAAQMD Condition 7406, Part B11</u>	<u>C</u>	<u>Temperature monitoring</u>

Table VII — ~~SeK.2~~
Applicable Limits and Compliance Monitoring Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions Opacity</u>	<u>BAAQMD 6-1-301</u>	<u>NY</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour Ringelmann No. 1</u>	<u>6-401None</u>	<u>P/EN</u>	<u>N/AVisual Inspection</u>

Table VII — SeK.2
Applicable Limits and Compliance Monitoring Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL
OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Visible Emissions</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>> Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VPVisible Particles FP</u>	BAAQMD 6-1-305	<u>NY</u>		<u>Prohibition of nuisance fallout</u>	<u>6-40+None</u>	<u>P/E/N</u>	<u>N/A</u> Visual Inspection
<u>VPVisible Particles</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>Prohibition of nuisance</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	BAAQMD 6-310.3	<u>NY</u>		<u>0.15 grain/dscf @ 6% O2 Process Weight Limitation</u>	None	N	NoneN/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O2</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>VOC (A40)</u>	<u>BAAQMD Condition 11609, Part A1</u>	<u>NY</u>		<u>A40 Residence time determination >= 95% control, 0.5 second residence time and 1400F minimum operating temperature</u>	BAAQMD Condition 11609, <u>Part A2B2</u>	C	<u>A40 Temperature monitor and pump flow indicators</u>
					<u>BAAQMD Condition 11609, Part A5.b</u>	<u>P/E twice daily</u>	<u>A40 Records</u>
		<u>N</u>		<u>A40 Residence time determination</u>	BAAQMD Condition 11609, <u>part B2</u>	C	<u>Flow indicator</u>
		<u>N</u>		<u>A40 used for abatement</u>	BAAQMD Condition 11609, <u>part D5</u>	<u>P/E/twice daily</u>	<u>Records</u>

Table VII — SeK.2
Applicable Limits and Compliance Monitoring Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL
OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>VOC (A42)</u>	<u>BAAQMD Condition 11609, Part C1</u>	<u>Y/N</u>		<u>>= 95% control, 0.5 second residence time and 1400F minimum operating temperature A42 Residence time determination</u>	<u>BAAQMD Condition 11609, Part C2</u>	<u>C</u>	<u>A42 Temperature monitor and pmp flow indicators</u>
					<u>BAAQMD Condition 11609, Part C5.b</u>	<u>P/E/ twice daily</u>	<u>A42 Records</u>
		<u>N</u>		<u>A42 Residence time determination</u>	<u>BAAQMD Condition 11609, part C2</u>	<u>C</u>	<u>Flow indicator</u>
		<u>N</u>		<u>A42 used for abatment</u>	<u>BAAQMD Condition 11609, Part C5.b</u>	<u>P/E/ twice daily</u>	<u>Records</u>
<u>VOC (A43)</u>	<u>BAAQMD Condition 11609, Part D1</u>	<u>Y/N</u>		<u>>= 95% control, 0.5 second residence time and 1400F minimum operating temperature A43 Residence time determination</u>	<u>BAAQMD Condition 11609, Part D2</u>	<u>C</u>	<u>A43 Temperature monitor and pmp flow indicators</u>
					<u>BAAQMD Condition 11609, Part D5.b</u>	<u>P/E/ twice daily</u>	<u>A43 Records</u>
		<u>N</u>		<u>A43 Residence time determination</u>	<u>BAAQMD Condition 11609, part D2</u>	<u>C</u>	<u>Flow indicator</u>
		<u>N</u>		<u>A43 used for abatment</u>	<u>BAAQMD Condition 11609, Part D5.b</u>	<u>P/E/ twice daily</u>	<u>Records</u>

Table VII — SeK.2
Applicable Limits and Compliance Monitoring Requirements
A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL
OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER
PUMP SEAL THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	40 CFR 60.104(a)(1)	Y		H2S in fuel gas burned < 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	40 CFR 60.105(a)(3) or 60.105(a)(4)	P/C	Records SO2/O2 or H2S

SECTION L REMEDIATION

Table VII – AY-L.1
Applicable Limits and Compliance Monitoring Requirements
S1452-GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH, 47 OIL/WATER WELLS, AND ASSOCIATED
PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES

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	BAAQMD Condition 9875, Part 6	Y		5,000,000 bbls/yr	None	N	N/A
40 CFR 63 Subpart GGGGG							
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A

Table VII – AY-L.1
Applicable Limits and Compliance Monitoring Requirements

S1452-GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH, 47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
40 CFR 63 Subpart GGGGG Transfer Systems							
<u>Joints</u>	40 CFR <u>63.7915(c)(2)</u> <u>63.7918(d)(1)</u>	<u>Y</u>		<u>All joints or pipe section seams must be permanently or semi-permanently sealed</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Leaks</u>	40 CFR <u>63.7917(c)</u> <u>63.7917(e)(1)</u> <u>63.7917(e)(2)</u> <u>63.7918(d)(2)</u>	<u>Y</u>		<u>No leaks or defects</u> <u>Make 1st attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system</u>	<u>40 CFR 63.7917(c)</u>	<u>P/A</u>	<u>Visual Inspection</u>

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally ~~referenced~~ found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits ~~referenced~~ included in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 1-604	Opacity Measurements	Manual of Procedures, Volume V, Continuous Emissions Monitoring
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 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
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
BAAQMD Regulation 8-2-301	Miscellaneous Operation Emission Limit	Manual of Procedures, Volume IV, ST-7 <u>or</u> ST-32; or EPA Method 25 or 25A
BAAQMD Regulation 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
BAAQMD Regulation 8-5-328.2	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-320.3	Pressure vacuum leak concentration	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-5-602	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-5-603	Determination of Emissions	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units; ST-7 Organic compounds
BAAQMD 8-5-605	Pressure-Vacuum Valve Gas Tight Determination	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-6-502	Portable Hydrocarbon Detector	EPA Reference Method 21 (40 CFR 60, Appendix A)
BAAQMD 8-6-601	Efficiency and Rate Determination	Manual of Procedures, Volume IV, ST-3 or ST-34
BAAQMD 8-6-603	Analysis of Samples, True Vapor Pressure	Manual of Procedures, Volume III, Method 28
BAAQMD 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
BAAQMD 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
BAAQMD 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
BAAQMD 8-7-301.2 8-7-603	Phase I Vapor Recovery Efficiency	Manual of Procedures, Volume IV, ST-36 or CARB Test Procedure TP-201.1
BAAQMD 8-7-301.6 8-7-301.13 8-7-302.5 8-7-602	Phase I and Phase II leak-free, vapor tight	Manual of Procedures, Volume IV, ST-38 (vaulted storage tanks) or CARB Test Procedure TP-201.3B (vaulted storage tanks)
BAAQMD 8-7-302.8 8-7-604	Phase II liquid removal	Manual of Procedures, Volume IV, ST-37
BAAQMD 8-7-302.12	Phase II nozzle liquid retain	CARB Test Procedure TP-201.2E or CARB specified equivalent
BAAQMD 8-7-302.13	Phase II nozzle spitting	CARB Test Procedure TP-201.2D or CARB specified equivalent

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-7-606	<u>Determination of applicability</u>	<u>Manual of Proedures, Volume III, Method 13</u>
BAAQMD Regulation 8-8-301, 302	Vapor tight cover	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
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)
BAAQMD 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
8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A)
BAAQMD Regulation 8-18-301, 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
BAAQMD Regulation 8-18-306	Determination of mass emissions	EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPAA-453/R-95-017) November 1995
BAAQMD Regulation 8-33-301	Emission rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Vapor Recovery Units
BAAQMD Regulation 8-33-305	Vapor tight – delivery vehicles	Manual of Procedures, Volume IV, ST-33, Ethanol, Integrated Sampling

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-33-309	Vapor recovery system – loading racks	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-601	Emission Rate Determination (Vapor Processing System)	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-602	Emission Rate Determination (Vapor Balance System)	Manual of Procedures, Volume IV, ST-3, Bulk Plants Emission Factor Determination
BAAQMD 8-33-603	Vapor Recovery System Loading Pressure	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-604	Vapor Tight – Delivery Vehicles	Manual of Procedures, Volume IV, ST-33, Gasoline Cargo Tanks
BAAQMD 8-33-605	Analysis of Samples	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-44-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-44-304.1	Tank vessel is leak free and gas tight	EPA Method 21
BAAQMD 8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21
9-1-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-2-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume V, Continuous Monitoring
BAAQMD 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

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-1-313	NH3 and H2S abatement efficiency	Manual of Procedures, Volume III, Method 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Method 1, Determination of NH3 in Effluents
BAAQMD 9-1-313.1	Sulfur in Fuel Limitation	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 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
BAAQMD 9-10-301, 303, 304	Determination of Nitrogen Oxides	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-13A and ST-14 Source Test)
BAAQMD 9-10-305	Determination of Carbon Monoxide and Stack-Gas Oxygen	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-6 and ST-14 Source Test)
BAAQMD Regulation 12-6-301	Acid Mist Emission Point	40 CFR -60, Appendix a, Method 8
40 CFR -60 Subpart J 60.102(a)(1)	Limit on particulate matter from FCCU catalyst regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
40 CFR -60 Subpart J 60.102(a)(2)	Limit on opacity of gases from FCCU catalyst regenerator	Method 9, Visual Determination of Opacity from Stationary Sources
40 CFR -60 Subpart J 60.102(b)	Limit on particulate matter from FCCU catalyst regenerator when gases pass through incinerator or waste heat boiler burning auxiliary or supplemental fuel	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
40 CFR -60 Subpart J 60.103(a)	Limit on carbon monoxide from FCCU catalyst regenerator	Method 10, Determination of Carbon Monoxide from Stationary Sources
40 CFR -60 Subpart J 60.104(a)(1)	Limit on H2S in fuel gas for fuel gas combustion devices	Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR -60 Subpart J 60.104(a)(2)(i)	Limit on sulfur oxide from Claus sulfur recovery plant (corrected for oxygen)	Method 6 or 6C, Determination of sulfur dioxide emissions from stationary sources Method 3 or 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources
40 CFR -60 Subpart J 60.104(a)(4)(ii) i)	H2S CEMS performance test methods	Performance evaluations for this H ₂ S monitor under §60.13(c) shall use Performance Specification 7. Method 11, 15, 15A, or 16 shall be used for conducting the relative accuracy evaluations.
40 CFR -60 Subpart J 60.104(b)(2)	Limit on sulfur oxide from FCCU catalyst regenerator without add-on control device	Method 6, Determination of Sulfur Oxides from Stationary Sources Alternate Monitoring Plan as allowed under 40 CFR -60.105(i)(12)
40 CFR -60 Subpart J 60.106(e)	H2S concentration monitoring	Method 11, Determination of Hydrogen Sulfide
40 CFR -60 Subpart J 60.106(e)(1)	H2S in fuel gas standard compliance determination	Method 11, 15, 15A, or 16 shall be used to determine the H ₂ S concentration. The gases entering the sampling train should be at about atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the sampling train. The sample shall be drawn from a point near the centroid of the fuel gas line. (i) For Method 11, the sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf). Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of H ₂ S may necessitate sampling for longer periods of time. (ii) For Method 15 or 16, at least three injects over a 1-hour period shall constitute a run. (iii) For Method 15A, a 1-hour sample shall constitute a run.
NSPS Title 40 Part 60 Appendix B	Performance Specifications	

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Performance Specification 1	Continuous opacity monitoring systems	Method 9, Visual Determination of Opacity from Stationary Sources
Performance Specification 2	NOx and SO2 continuous emission monitoring systems	Method 7, Determination of nitrogen oxide emissions from stationary sources Method 6, Determination of sulfur dioxide emissions from stationary sources
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	Method 3, Gas analysis for the determination of emission rate correction factor or excess air
Performance Specification 4	CO continuous emission monitoring systems	Method 10, Determination of carbon monoxide emissions from stationary sources
Performance Specification 7	H2S continuous emission monitoring systems	Method 11, Determination of Hydrogen Sulfide
NSPS Title 40 Part 60 Appendix F	Quality Assurance Procedures	
Procedure 1	QA requirements for gas continuous emissions monitoring systems	
40 CFR 63 Subpart UUU 63.1564(b)(1) 63.1572 Table 40	Test Methods for COMS (continuous opacity monitoring system)	NSPS Requirements: Performance Specification 1 (40 CFR 60, Appendix B)
40 CFR 63 Subpart UUU 63.1565(b)(1) 63.1572 Table 40	Test Methods for CO CEMS	NSPS Requirements except as allowed by Consent Decree: Performance Specification 4 (40 CFR 60, Appendix B); span value of 1,000 ppm; Procedure 1 (40 CFR 60, Appendix F), with Consent Decree exceptions for quarterly audits
40 CFR 63 Subpart UUU 63.1566(b)(2)	Performance Test for Organic HAP Emissions From Catalytic Reforming Units	Method 22 (40 CFR 60, Sppendix A)

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 63 Subpart UUU 63.1567(b)(2)	Performance Test for Inorganic HAP (HCl) Emissions From Catalytic Reforming Units	Method 26 or 26A (40 CFR 60, Appendix A)
40 CFR 63 Subpart UUU 63.1568(b)(1) 63.1572 Table 40	Test Methods for SO2 CEMS for sulfur recovery unit (must include O2 monitor for correcting for excess air)	NSPS Requirements: Performance Specification 2 (40 CFR 60, Appendix B); span value of 500 ppm SO2; Methods 6 or 6C and 3A or 3 B (40 CFR 60, Appendix A); Procedure 1 (40 CFR 60, Appendix F)
NSPS Part 60 Subpart QQQ	Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (11/23/88)	
40 CFR, Subpart QQQ	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart QQQ 40 CFR 60.692-5 (e)(1)	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, 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.
NSPS Part 60 Subpart VV	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (10/18/83)	
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

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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(c): EPA reference method 21 (40 CFR -60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.483 and BAAQMD 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 Title 40 Part 60 Appendix A	Inspection Procedures	EPA Reference Method 21
NESHAP Part 61 Subpart FF	National Emission Standard for Benzene Waste Operations (3/7/90)	
Subpart FF 40 CFR 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
Subpart FF 40 CFR 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)	

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart V 40 CFR 61.242- 2(b)(1), 61.242-7(b), 61.242-8(b)	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (40-CFR-60 , Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.242-2 (b)(2), 61.242- 2 (g), 61.242- 8(a)	Visual Inspection	61 Subpart V, 61.242-2 (b)
Subpart V 40 CFR 61.242-2(e), 61.242-4(a), 61.242-4(b), 61.242-7(f), 61.242-11 (f)	Leak inspection procedures	61 Subpart V, 61.245(c) : EPA reference method 21 (40-CFR-60 , Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.243 and BAAQMD 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
40 CFR, Subpart VV, 63.1046	Test methods, procedures	Method 21 of 40-CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.
40 CFR, Subpart CC	Test methods, procedures	EPA reference method 21 (40-CFR-60 , Appendix A), Determination of Volatile Organic Compound Leaks

IX. Permit Shield

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 – 3
 Permit Shield for Non-applicable Requirements
 S901- NO. 7 BOILER, ~~S903 NO. 5 BOILER~~, S904-NO. 6 BOILER**

Citation	Title or Description (Reason not applicable)
40 CFR -60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971 (Sources are not newly constructed, reconstructed, or modified since the applicability date of August 17, 1971 for 40 CFR -60 Subpart D.)
40 CFR -60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (Sources are not newly constructed, reconstructed, or modified since the applicability date of June 19, 1984 for 40 CFR -60 Subpart Db.)
40 CFR -60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Sources are not newly constructed, reconstructed, or modified since the applicability date of June 9, 1989 for 40 CFR -60 Subpart Dc.)

IX. Permit Shield

**Table IX A – 4
 Permit Shield for Non-applicable Requirements
 S1411-SULFURIC ACID MANUFACTURING PLANT**

Citation	Title or Description (Reason not applicable)
40-CFR-60 Subpart H	Standards of Performance for Sulfuric Acid Plants (S1411 is not newly constructed, reconstructed, or modified since the applicability date of August 17, 1971 for 40-CFR-60 Subpart H.)

**Table IX A – 5
 Permit Shield for Non-applicable Requirements
 ORGANIC LIQUID STORAGE TANKS**

Citation	Title or Description (Reason not applicable)
40-CFR-60 Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (There are no asphalt storage tanks on site.)

**Table IX A – 6
 Permit Shield for Non-applicable Requirements
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1013-AMMONIA PLANT
 FLARE**

Citation	Title or Description (Reason not applicable)
Regulation 8, Rule 2	Miscellaneous Operations (Sources that are subject Regulation 10 are exempt from Regulation 8, Rule 2.)

**Table IX A-7
 Permit Shield for Non-Applicable
 S1106-NO. 72 FURNACE**

Citation	Title or Description (Reason not applicable)
40-CFR-60 Subpart J	Standards of Performance for Petroleum Refineries (BAAQMD Permit Condition 19199, Part H1 allows for firing of natural gas only)

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application 16484): December 1, 2003

Administrative Amendment (no application): May 27, 2004

Reopening Revision 1 (Application 9295): December 16, 2004

Minor Revision (Application 11265): December 30, 2004

Modify the materials to be stored at S-323 Tank A-323 to allow the storage of alkylate gasoline blending material. Increase vapor pressure of material to be stored from a Reid vapor pressure of 2 psia to 9 psia. The throughput of the tank will be decreased from 11,000,000 to 2,000,000 barrels per year. Add source testing requirement for A-14 Vapor Recovery System and process heaters to ensure VOC destruction efficiency of 99.5%. Update Tables II-A, II-B, Table IV –CV, Conditions 13605 and 21503, and Table VII-CB.

Reopening Revision 2 (Application 11696): February 1, 2005

Reopening Revision 2/3 (Application (12431 & 12599) March 9, 2007

Minor Significant Revision (Revision 4): Date TBD March 20, 2008

Application Number(s)	Description
14144/14141&16390/16389	Coker Modification Project and Revisions
14326/14325	No. 1 HSD Unit Modification
14375/14374	Sulfur Pit Vent Reroute (Consent Decree)
14753/14752	No. 2 Reformer Reactor Feed Preheater F-27
14893/14894	Benzene Saturation Unit Throughput Increase
14917/16496/16495	Firewater Pumps
14918/14919	New Tank S-896
15430/15429	Avon Wharf Slop Tanks
15683/15212	FCCU Change of Conditions (Consent Decree)
15681/15682	NOx Box
16015/15949	Sulfur Recovery Unit (Consent Decree)
16114/16018	Blowdown Tower S-822 Removal
16217/16125	New Gasoline/Blendstock Storage Tank
TBD/15944	Isocracker Unit Hydrogen Recycle Compressor Leak

Permit Renewal 2010, Application 18261

Date TBD

<u>Application Number(s)</u>	<u>Description</u>
<u>13228</u>	<u>S-1506 & S-1507 New Gasoline Tanks. Evaluation in Rev 3.</u>
<u>14374/14375</u>	<u>Reroute Sulfur Pit Vent. Evaluation in Rev 4.</u>
<u>16082</u>	<u>S-1009 Alkylation Unit Alteration Waste Water Flash Drum</u>
<u>16822/16823</u>	<u>S-896 New Slop Oil Tank</u>
<u>16850/16892</u>	<u>S-1008 Isocracker Unit HIR Compressor Leak Control</u>
<u>16888/16893</u>	<u>Modification of S-913 NOx Box</u>
<u>16889/16890</u>	<u>Modification of S-951 NOx Box</u>
<u>16908</u>	<u>No. 5 Gas Plant -- Wet Gas Compressor Seal Vent Change</u>
<u>17111</u>	<u>S-1416 Spent Acid Tank Vent</u>
<u>17413/17415</u>	<u>S-804 FCCU Blowdown Tower Removal</u>
<u>17470/17471</u>	<u>Modification of S-916 NOx Box</u>
<u>17472/17473</u>	<u>S-795 Perc Storage Vessel Adm. Change in Conditions</u>
<u>17478/17479</u>	<u>S-863 LPG Vaporizing System Adm. Change in Conditions</u>
<u>17500/17501</u>	<u>S-802 FCCU Adm Change in Conditions per Consent Decree</u>
<u>17537/17538</u>	<u>Adm Change in Conditions for Refinery Tanks</u>
<u>17712/17713</u>	<u>Adm Change in Conditions for Amorco Tanks</u>
<u>17752/17753</u>	<u>Consent Decree Requirements for Flares</u>
<u>17836</u>	<u>S-920 New Economizer Alteration</u>
<u>17913/17914</u>	<u>SRU Tail Gas Unit</u>
<u>17928/17458</u>	<u>Removal of Out of Service Sources</u>
<u>18311</u>	<u>Revision to Source Tests for Delayed Coker Heaters</u>
<u>18739/18738</u>	<u>Removal of Fluid Coker Sources</u>
<u>18748/18749</u>	<u>Modification of S-919 NOx Box</u>
<u>18752/18753</u>	<u>50 Unit Blowdown Tower Elimination & New 50 Unit Flare</u>
<u>18835/18832</u>	<u>S-1525 New Gasoline Dispensing Facility</u>
<u>18861/18862</u>	<u>Remove Redundant Fugitive Permit Conditions</u>
<u>18949/18950</u>	<u>Stripper OH (Hydrocracker) Reroute</u>
<u>18997/18998</u>	<u>S-861, S-1455 & S-1457 Cold Cleaner Exemption</u>
<u>19300/19301</u>	<u>S-904 (6BH) Remove CO Boiler Functionality</u>
<u>19326/19327</u>	<u>Avon Wharf Source Deletions And Condition Changes</u>
<u>19328/19329</u>	<u>Crude Tank A-700 Change In Conditions</u>
<u>19330/19331</u>	<u>Amorco IC Engines S-56 & S-57 Change in Conditions</u>
<u>19415</u>	<u>S-1528 Alkylate Unloading Rack</u>
<u>19419/19418</u>	<u>Refinery IC Engines Change in Conditions</u>
<u>19647/19632</u>	<u>Consolidate Bubble Conditions 4357 and 8077.</u>
<u>19874/19875</u>	<u>Combustion Sources Change in Conditions</u>

<u>Application Number(s)</u>	<u>Description</u>
<u>20143/20144</u>	<u>S-819 API Oil-Water Separator and S-1026 DNF Air Stripper</u>
<u>20259/20260</u>	<u>Modification of S-909 NOx Box</u>
<u>20359/20360</u>	<u>Modification of S-920 NOx Box</u>
<u>20679/20680</u>	<u>Delayed Coker Throughput Change</u>
<u>20929</u>	<u>Exempt Cold Cleaners</u>
<u>20977/20995</u>	<u>Backup Steam Boilers S-1550 and S-1551</u>
<u>20997/20995</u>	<u>Exemption for Portable Diesel Pump S-1552</u>
<u>21023/21024</u>	<u>Ethanol Unloading and Storage Throughput Increase</u>
<u>21464/21465</u>	<u>Furnace Duties Change of Conditions</u>
<u>21711/21712</u>	<u>Administrative Amendment to Address Appeal Items</u>
<u>21732/21733</u>	<u>Modification of S-919 NOx Box</u>

XI. GLOSSARY

ACT

Federal Clean Air Act

AMP

Alternative Monitoring Plan (as allowed in NSPS and MACT)

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

Bubble

An emission limit imposed on a group of sources.

C5

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEQA

California Environmental Quality Act

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

CFP

Clean Fuels Project

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.

CGA

Calibration Gas Audit

CO

Carbon Monoxide

CO2

Carbon Dioxide

Consent Decree

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et.al. in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005

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

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

DWT

Dead Weight Ton

District

The Bay Area Air Quality Management District

DNF

Dissolved Nitrogen Flotation (See DAF)

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

EMP

Environmental Management Plan

EPA

The federal Environmental Protection Agency.

ESP

Electrostatic Precipitator

ETP

Effluent Treatment Plant

Excluded

Not subject to any District Regulations.

FAT

Field Accuracy Test

FCC

Fluid Catalytic Cracker

Federally Enforceable, FE

All limitations and conditions which 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), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

GLM

Ground Level Monitor

grains

1/7000 of a pound

Grandfathered source

A source that was not subject to District permit requirements at the time it was constructed, but was subsequently required to obtain a District permit to operate, and has never been modified since the permit requirement went into effect. Sources constructed prior to March 7, 1979 (when the District's new source review permit program went into effect) might be grandfathered sources. Source that were exempt from permit requirements at the time of construction, that subsequently lost their exemption due to a change in permit rules, might also be grandfathered sources.

GRU

Gas Recovery Unit

Graphitic

Made of graphite.

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 ~~40 CFR~~ Part 63.

H₂S
Hydrogen Sulfide

H₂SO₄
Sulfuric Acid

HC
Hydrocarbon

Hg
Mercury

HNC
Heavy Neutral Hydrocracker

HNHF
Heavy Neutral Hydrofinisher

HHV
Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT
An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

ISOM
Isomerization plant

JHT
Jet Hydrotreater

LFSO
Low sulfur fuel oil

LHV
Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter
"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of

organic liquids produces organic vapor emissions.

LNC

Light Neutral Hydrocracker

LNHF

Light Neutral Hydrofinisher

Long ton

2200 pounds

LPG

Liquid Petroleum Gas

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of any 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.

MDEA

Methyl Diethanolamine

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MM

Million

Mo Gas

Motor gasoline

MOP

The District's Manual of Procedures

MOSC

Mobil Oil Sludge Conversion (licensed technology)

MSDS

Material Safety Data Sheet

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.

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

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 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 air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by ~~40-CFR~~ Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. 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

Total Particulate Matter

PM10

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of 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.

RAA

Relative Accuracy Audit

RACT

Reasonably Available Control Technology

RATA

Relative Accuracy Test Audit

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG

Refinery Fuel Gas

RMG

Refinery Make Gas

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

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.

SOCMI

Synthetic Organic Chemical Manufacturing Industry

SO2

Sulfur dioxide

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO3

Sulfur trioxide

SRU

Sulfur Recovery Unit

ST-7

Source Test Method #7: Non-Methane Organic Carbon Sampling

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

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

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Plan

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VGO

Vacuum Gas Oil

VOC

Volatile Organic Compounds

VR

Vapor Recovery

WWT

Wastewater Treatment

Units of Measure:

bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
<u>BPD</u>	=	<u>barrels per day</u>
<u>BPH</u>	=	<u>barrels per hour</u>
<u>BPY</u>	=	<u>barrels per year</u>
<u>BTU or btu</u>	=	British Thermal Unit
C	=	degrees Celeius <u>Celsius</u>
<u>dscf</u>	=	<u>dry standard cubic feet</u>
<u>dscm</u>	=	<u>dry standard cubic meters</u>
F	=	degrees <u>Fahrenheit</u> Farenheight
f ³	=	cubic feet
g	=	grams
<u>gr</u>	=	<u>grains</u>
gal	=	gallon

gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
<u>k or K</u>	=	<u>thousand</u>
max	=	maximum
m ²	=	square meter
min	=	minute
M	=	thousand
Mg	=	mega-gram, one thousand grams
µg	=	micro-gram, one millionth of a gram
<u>ml</u>	=	<u>milliliter</u>
MM	=	million
mm	=	millimeter
MMbtu	=	million BTU btu
mmBtu	=	million BTU btu
mmbtu	=	million BTU btu
<u>MMBTU</u>	=	<u>million BTU</u>
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
ppmv	=	parts per million, by volume
ppmvd	=	parts per million, by volume, dry basis
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
<u>TPD</u>	=	<u>tons per day</u>
<u>TPY</u>	=	<u>tons per year</u>
<u>tpy</u>	=	<u>tons per year</u>
yr	=	year

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

XII. 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=4.1>

Appendices A-D

Hyperlink to Appendix A to go here:

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02a.pdf

Hyperlink to Appendix B to go here:

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02b.pdf

Hyperlink to Appendix C to go here:

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02c.pdf

Hyperlink to Appendix D to go here:

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02d.pdf

Appendix E

http://www.baaqmd.gov/pmt/title_v/B2758-9/B2758-9_2005-08_reopen_02e.pdf

Hearing Board Docket No. 3492

H:\Engineering\TITLE V Permit Appls\1-ALL T5 Application Files here\B2758-B2759\Minor Revision-
Rev 4-14144\1.0 Working docs\B2758-B2759 Rev 4 Working Draft 10-18-07.doc